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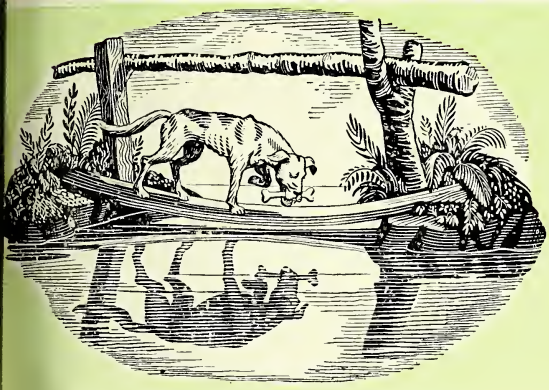
The
CHEMIST AND DRUGGIST
RETAILER — WHOLESALER — MANUFACTURER
JULY 30, 1949



To each his own

The basis of human disagreement is misunderstanding. Wherever misunderstanding is present there are also present suspicions, distrust and resentment, which often lead to illogical conclusions. No family, no business organisation, no industry can afford to allow misunderstanding to develop among its members. The pharmaceutical industry consists of the three essential elements of manufacturing, distributing and dispensing. Each is necessary to the existence of the others. The best interests of all will be served by a full measure of mutual respect and recognition. For more than half a century Eli Lilly and Company, as a manufacturer, has consistently respected the rights and functions of both the retail pharmacist and his wholesale distributor.

Lilly
TRADE MARK

ELI LILLY AND COMPANY LIMITED · BASINGSTOKE, HANTS.

Index to Advertisers pp. 5 & 6

RATIONALISATION

The arrangement by which our penicillin is made available to hospital and trade customers through seven well-known pharmaceutical houses, each with its highly organised distribution facilities, is a good example of rationalisation in industry.

We at Speke are kept informed by our distributors of the needs of pharmacists and are constantly aware of our close connection with these men and women in their task of supplying the physician with drugs of a high purity and potency.

PENICILLIN

Manufactured by :

THE DISTILLERS COMPANY (BIOCHEMICALS) LTD.

Distributed by :

ALLEN & HANBURYS LTD.
BOOTS PURE DRUG CO. LTD.
BURROUGHS WELLCOME & CO.
BRITISH DRUG HOUSES LTD.
EVANS MEDICAL SUPPLIES LTD.
IMPERIAL CHEMICAL (PHARMACEUTICALS) LTD.
PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD.

THE DISTILLERS COMPANY (BIOCHEMICALS) LTD.

FLEMING ROAD SPEKE LIVERPOOL

Now a 1/6 size of Ammi-dent

From today Ammi-dent, the Ammonium Ion Toothpowder, which has received such an amazing welcome from Dentists all over the country, is available in two sizes :

1½ oz. Pourer Tin, to retail at 1/6, inc. P.T.
Trade terms : 9/10 per dozen, plus 3/3 Tax.

3 oz. Pourer Tin, to retail at 2/6, inc. P.T.
Trade terms : 16/5 per dozen, plus 5/5½ Tax.

To get the full benefit of the rapidly growing demand, you should stock both sizes. Both sizes are featured in our advertising.

Remember, Ammi-dent, the only ammoniated dentifrice licensed for manufacture in England by the Eastern Graduate Research Foundation of N.Y., is already being used and recommended by more than half the Dentists in the country.

Distributors :

Fassett & Johnson, Ltd., 86 Clerkenwell Road, London, E.C.1

Ammi-dent

The Ammonium Ion Toothpowder

Actually helps to Prevent Decay

MADE AND GUARANTEED BY THE

ERNET DENTAL MANUFACTURING CO., WELWYN GARDEN CITY, HERTS.

Mary Drake

BATH AND TOILET SOAP

Retails at
2/6 *and* 1/3

A Soap of Charm and Distinction

A Product of
HARRY GREEN LTD., AJAX WORKS, BARKING, ESSEX.

SUNNY DAYS *mean* SALES

for these two preparations

MONACO SUN TAN OIL

— delicately perfumed, containing benzyl salicylate. Cost: 10/- per dozen, plus P.T. Special price for 6 doz. lots: 9/9 per doz.

INDUCES A GOLDEN BROWN TAN

MONACO SUNBURN LOTION

— a colloidal calamine with bentonite. Cost 9/- per dozen, plus P.T. Special price for 6 dozen lots: 8/9 per dozen.

SOOTHES SUNBURNT SKIN

Made in England by

EVANS MEDICAL SUPPLIES LTD

Liverpool and London

191—14/C9

THE CHOICE OF DISCRIMINATING WOMEN IN THIRTY DIFFERENT COUNTRIES

A NEW CONTRACEPTIVE

★ The result of prolonged biological and clinical research Rendell-Foam sets a new standard in the technique of contraception and will be widely prescribed when conception control is either necessary or desirable.

RENDELL-FOAM

★ Rendell-Foam is completely spermicidal and remarkably rapid in action. It is non-irritant, free from any objectionable odour, non-greasy and free from all insoluble substances.

★ It will keep indefinitely and is not affected by climatic conditions.

OTHER RENDELL PRODUCTS

RENDELLS

The World's Most Famous Contraceptive

SANTRON

The Modern Germicide

SANTRON CONCENTRATE

Health Service in a Tube

MENSINOLE

For Period Pains

Rendells **PRODUCTS** *for* FEMININE HYGIENE

W. J. RENDELL LTD., Manufacturing Chemists, 161-5 Rosebery Avenue, London, E.C.1. England

INDEX TO ADVERTISERS

s, Ltd. 32
, J., Rubber Co., Ltd. xvii
strong Cork Co., Ltd. ... x
o, Ltd. xxviii
in, James, Ltd. xi
Tin Plate Printers, Ltd. xiii

y, R., & Son, Ltd. ...xxiii
r Products, Ltd. 11
Honey xxx
hams Pills, Ltd. 21
John, Hills & Lucas,
d. .....Leader Page
oe & Fish .....Col. Supp.
nan, S., & Sons, Ltd. ... viii
ow, T. F., & Co., Ltd. 12
sh Chemotheutic Pro-
cts, Ltd. xxvii
sh Drug Houses, Ltd., The i
sh Dyewood Co., Ltd. ... iv
chovydrin (1945), Ltd. ... viii
ley-Bowker Tablet Co.,
d. v
ough, James, Ltd.
Leader Page
oughs Wellcome & Co. 9. 33
r & Crispe 27

egic Chemicals (Wel-
n), Ltd. .....Cover iv

Carton Box & Printing Co.,
Ltd. xx
Castiglione, K., & Co., Ltd. iv
Cellucotton Products, Ltd. ... vi
Chemist & Drugstore News ... xx
Citrus Products Co., Ltd. ... xxvi
Claridge, Peter, Ltd. 24
Combex, Ltd. xv
Comtesse Laboratories, Ltd. xxiv
Container Recovery Service... xx
Cooper Laboratory, Ltd. 22
County Perfumery Co., Ltd. 14
Cox, Arthur H., & Co., Ltd. 8
Cox, J., & Co. 26
Crookes, F. & W., & Sons,
Ltd. iv
Cuticura Preparations xxxiii
Cuxson, Gerrard & Co., Ltd. xxxii

Dae Health Laboratories, Ltd. xix
Daniel, Richard, & Son, Ltd. 13
Delavelle, Ltd. 27
Dinneford & Co., Ltd. xxix
Distillers Co. (Biochemicals),
Ltd. .....Cover ii
Distillers Co., Ltd. 28
Dolcin, Ltd. xxv

Edge, Wm., & Sons, Ltd. ... xiii
Edme, Ltd. xxxii
Eno, J. C., Ltd. 15

Evans Medical Supplies, Ltd. 3

Franck, Marcel & Co. (Lon-
don), Ltd. 30
Frankenberg, L., Ltd. ix
Franks, A., & Bartlett Co.,
Ltd. 18
Freudentheil, Smith & Co.
Leader Page

Gardner, W., & Sons (Glos.),
Ltd. xii
Garlic Deodorised Antiseptics,
Ltd. .....Leader Page
Genoxide, Ltd. ii
George, Ernest J., & Co.
Col. Supp.
Gibbs, D. & W., Ltd. 17
Glama of Mayfair 28
Green, H., Ltd. 2

Haller Laboratories, Ltd. xi
Hamburger, M., & Sons iv
Harker, C. R., Stagg & Mor-
gan, Ltd. 6
Harvey & Co. (Dublin), Ltd. xx
Harwoods Laboratories, Ltd. xxxiv
Herts Pharmaceuticals, Ltd. 30
Hobson, Trimble & Co., Ltd. vi

(*continued overleaf*)

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Sales prove the public's appreciation of ESõBAN, which is preferred by the medical profession for its soothing action.

Indicated for SUNBURN, CHAFING, ECZEMA, and other irritant skin conditions. Supported by advertising in Women's Journals.

Order your Bonus Parcel NOW.

4 oz. bottle
2/9 inc. tax

ESõBAN
Cream **OF CALAMINE**

33⅓% *DISCOUNT* • *THROUGH YOUR C. F. WHOLESALER*

SPECIAL BONUS OFFER

13 to the dozen for orders of 3 dozen.
14 to the dozen for orders of 6 dozen and over.
FOR A TWO WEEKS' WINDOW DISPLAY.

OUTHON LABORATORIES LTD • UPPER RICHMOND ROAD • LONDON, S.W.15 P.A.T.A.

INDEX (cont.)

Ilex Supply Co., Ltd. xxvi

Jackson Metal Furniture, Ltd. xx
Jeffreys, Miller & Co., Ltd. 22
Jones & Bailey, Ltd. xxii
Jones, W. H., & Co. (London), Ltd. .....Leader Page

Kearsley, C. & G., Ltd. vi
Kellys, J., (London), Ltd. ... iv
Knox, John (Stoke-on-Trent), Ltd. xxiv

Lilly, Eli, & Co., Ltd. Front Cover
Loveluck, Edwards & Co. Leader Page

Manchester Oil Refinery, Ltd. ii
Mandleberg, J., & Co., Ltd. xviii
Marks, Leslie & Co., Ltd. ... ix
Marns, Thomas, Ltd. (Arrid) xxiv
Matthews, S., & Co., Ltd.... xxiii
Mitchell, L. A., Ltd. ii
Momand, Don S., Ltd. xiv
Moore Medicinal Products, Ltd. 24
Mountmellick Products, Ltd. 30
Morley, Rogers & Co., Ltd.... xxv
Moseley, D., & Sons, Ltd. . . ix

National Association of Opticians .....Leader Page
Nervone 22

Optrex, Ltd. 10
Orridge & Co. .....Col. Supp.
Oxo, Ltd. 34

Panda Roll Film Co., Ltd. Col. Supp.
Peboc, Ltd. 22
Perihel, Ltd. 26
Peters, Robert, & Co. xii
Petrushkin, M., Ltd. xiii
Porteus, Geo., & Sons (Leeds), Ltd. v
Potter & Clarke, Ltd. 31
Pure Products, Ltd. 25

Rankin Bros. & Sons Leader Page
Rendell, W. J., Ltd. 4
Rentokil, Ltd. xii
Richardson, J., & Co. (Leicester), Ltd. xxx
Rimmel Distributors, Ltd. ... 29
Rose's Diabetic Lime Juice xxviii

St. Andrews Mills, Ltd. vii
Sandoz Products, Ltd. 23
Savory & Moore, Ltd. 34
Scram Products, Ltd. xxi
Seven O'clock Razor Blades x

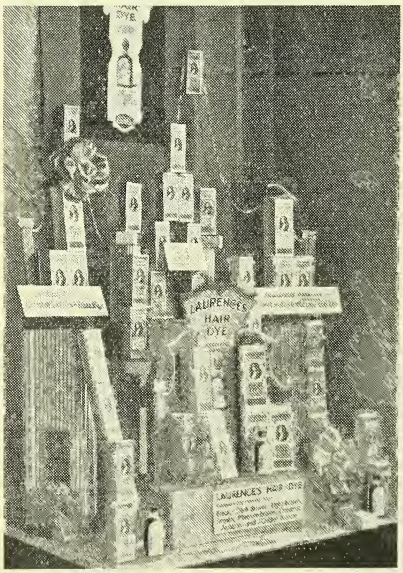
Shupak, W., & Co., Ltd. . 22
Sidnick, M., & Co., Ltd. . 28
Silvikrin Laboratories xxi
Southon Laboratories, Ltd. . 5

Tampax, Ltd. xvi
Teasdale & Co., Ltd. 28
Tenz (London), Ltd. xiii
Tintex Dyes xi

Velouty de Dixor xx
Veedip, Ltd. 20
Velena iii
Veno Drug Co., Ltd. 7

Waide, Thos., & Sons, Ltd 13
Wallis Laboratory, Ltd. Leader
Wernet Dental Manufacturing Co. 1
Westbrook Lanolin Co. 26
Westminster Laboratories, Ltd 19
Whiffen & Sons, Ltd. ...Co iii
Whitakers (Kendal), Ltd. . 26
White, J. F., & Co., Ltd. . vi
Williams, Charles & Co. . v
Windschuegl, Chas. H., Ltd iii
Woodward, G. O., & Co Ltd. xii
Woolley, J., Sons & Co., Ltd 16

Zeal, G. H., Ltd. v



Let us arrange
ANOTHER DISPLAY
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LAURENCE'S HAIR D

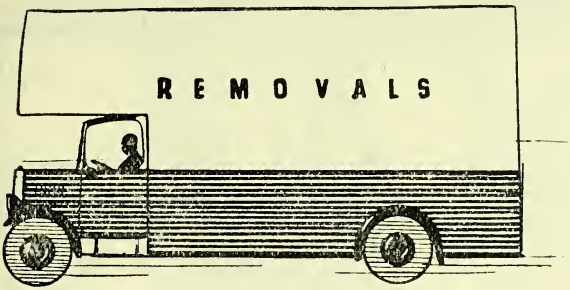
ON THE MARKET 150 YEARS
WELL WORTH RECOMMENDIN

Please give us your instructions r
a part or a whole window disp y
and indicate approximate date u
would like it, then leave the res o
US and—

The DISPLAYMAX Co

Write or Phone: Stepney Green 2022

HARKER, STAGG & MORGAN LTD. EMMOTT STREET, LONDON, E



Please note change of address

As from AUGUST 2nd, 1949, the VENO DRUG COMPANY LIMITED will transfer its operations to ST. HELENS, LANCASHIRE. Please see NEW ADDRESS below, with Telephone Number and Telegraphic Address.

Our Representatives will continue to contact all customers as heretofore, booking orders in accordance with our present terms, which remain unaltered. From the above date all goods will be invoiced and despatched from ST. HELENS. Direct orders, remittances, and all communications should be addressed as under :—

VENO DRUG Co. Limited

ST. HELENS, LANCASHIRE

Telephone Number
St. Helens 2241

Telegraphic Address
"BEVENO" St. Helens

Scientific Equipment

ARTHUR H. COX & Co. LIMITED
BRIGHTON

Skilled Personne

MANUFACTURING CHEMISTS SINCE 183

PILLS AND
TABLETS
CAPSULES
SOLVELLÆ

Pharmaceuticals
Packed —
— Specialities
Own Name formul

Announcing a New Book

PHARMACEUTICAL
EMULSIONS
AND EMULSIFYING AGENTS

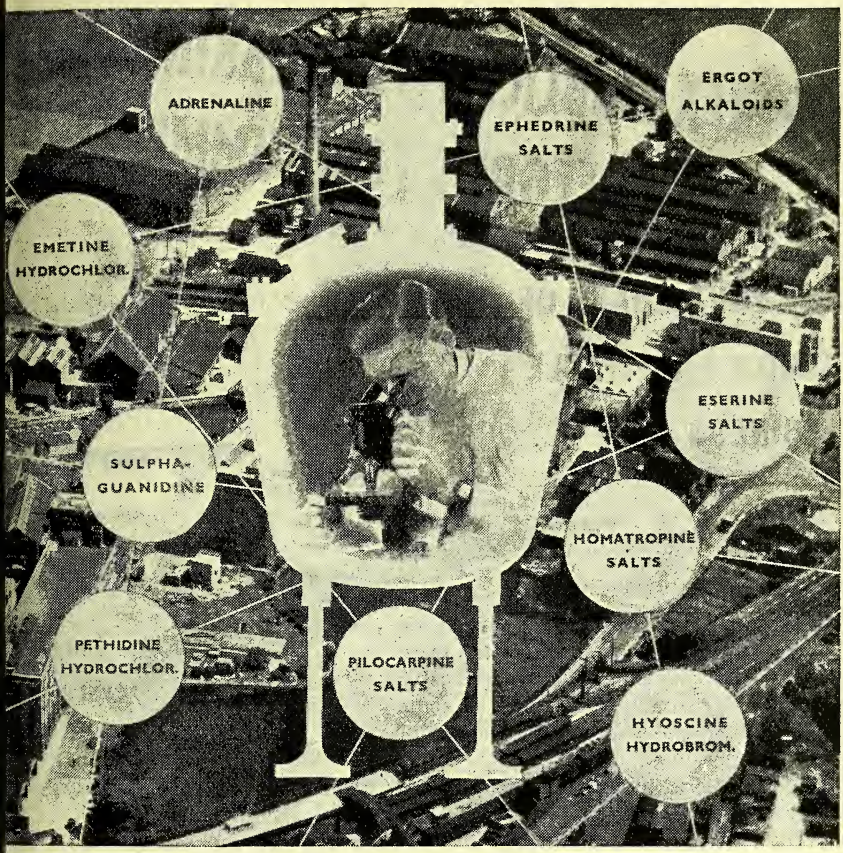
by L. M. SPALTON, B.Pharm., M.P.S.

In recent years there has been a bewildering increase in the number of emulsifying agents available for use in pharmacy. In this book they are classified with practical hints about their pharmaceutical use. Names of manufacturers of proprietary products are given—an index that alone makes this book indispensable to-day.

Price **5/6** Post Free

Order accompanied by remittance should be sent to

The Publisher
THE CHEMIST & DRUGGIST
28 ESSEX STREET, STRAND, LONDON, W.C.2



For over **FIFTY** *years*

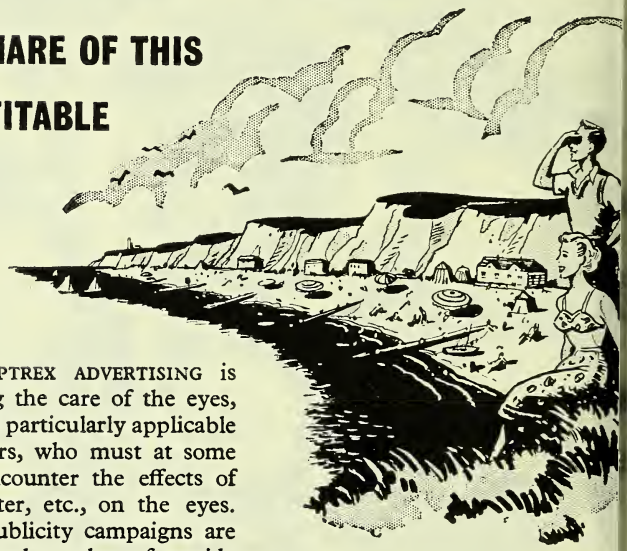
: Wellcome Chemical Works have been producing chemicals of superlative quality. ny of these can now be supplied to other manufacturers on particularly advantageous ms. In addition, we invite inquiries regarding the preparation of fine chemicals which : not already on our list. Long and extensive experience in the field of chemical nufacture places us in an exceptional position to meet the special needs of individual stomers.

'B.W. & CO.' *Fine Chemicals*

oughs Wellcome & Co. (The Wellcome Foundation Ltd.), Bulk Chemical Department, 183-193, Euston Road, London, N.W.1

OPTREX PUBLICITY IS BREAKING ALL RECORDS FOR SUMMER TRA E

GET YOUR SHARE OF THIS HIGHLY PROFITABLE BUSINESS



NATION-WIDE OPTREX ADVERTISING is continually stressing the care of the eyes, and this is of course particularly applicable to all holiday-makers, who must at some time or another encounter the effects of glare, dust, salt-water, etc., on the eyes. In addition local publicity campaigns are being run in a selected number of seaside resorts throughout the holiday months, which will further emphasise the need for Optrex at this time.

Vast numbers of holiday-makers — your customers — will see these advertisements. That means heavy demand for Optrex, right through the season. Be sure you take advantage of this record-breaking publicity drive.

DISPLAY MATERIAL

If you feel that your display material needs strengthening with a special holiday showcard (if still available) drop us a line quickly. We'll do all we can to help you.

Optrex

KELDON LTD., PERIVALE, MIDDX.

Sole distributors for Optrex Ltd., Peri Laboratories, Ltd., Melvet Ltd., Vet Ltd.

BAYER

in obesity . . .

'ELITYRAN'

Cretinism and myxœdema are of course the classical indications for thyroid therapy, but mild degrees of glandular dysfunction are commonly encountered and call for small doses of thyroid extract. Obesity of itself is no proof of hypothyroidism, but, in conjunction with the appropriate low-calorie diet, and exercise, thyroid medication is often a valuable measure. 'Elityran,' a full-gland extract of thyroid with high standardised iodine content, seldom gives rise to the palpitations and nervous upset commonly experienced with this form of therapy.

Packings: Tablets of full-gland thyroid extract, containing the equivalent of 0.15 *mg. organic iodine and* 0.09 *mg. thyroxine, in packings of* 30, 100, 250, 1,000.

BAYER PRODUCTS LIMITED

AFRICA HOUSE : KINGSWAY : W.C.2

Two new ready-sellers

Bristow's

EAU DE COLOGNE . .
EAU DE COLOGNE SOA

Sell them as a "team"—or sell them individually—the answer's the same . . . **REPEAT SALES!** For in Bristow's Eau de Cologne you sell a delicate elusive perfume that is always fresh. And in Bristow's Eau de Cologne Soap you sell a soap of the high quality for which Bristow's are famous. Yes, here are certainly two ready-sellers.

EAU DE COLOGNE SOAP	EAU DE COLOGNE	
3 oz. size, Retail price **8d.** Standard pack 2 doz. Trade terms 4/8½d. per doz.	Large size, Retail price **6/6d.** (2 oz. size) Trade terms: ½ doz. **31/3d.** per doz 3 , **29/11d.** ,, 6 ,, **28/6d.** ,,	Small size, Retail price **2/6d.** (4 drams) Trade terms: **1** doz. **12/-** per doz. 3 ,, **11/6d.** ,, 6 ,, **11/-** ,,
Purchase tax per doz. 1/6⅝d.	*Purchase tax per doz. 31/3d.*	*Purchase tax per doz. 12/-*

T. F. BRISTOW & CO. LTD., BOSTON MANOR ROAD, BRENTFORD, MIDDX.

Richard Daniel & Son LTD

PROPRIETARIES
SUNDRIES DRUGS
TABLETS & PILLS

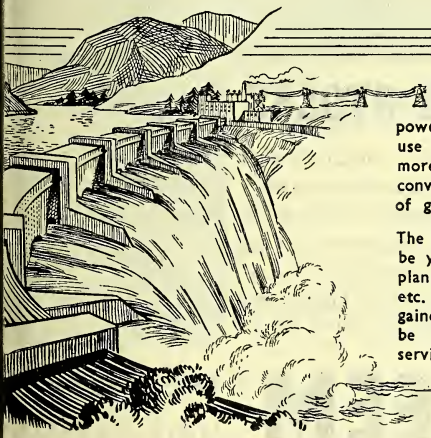
FOR CHEMISTS

Manufacturing Chemists

Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

My skill goes beyond the depths of a pond

MARTIN PARKER



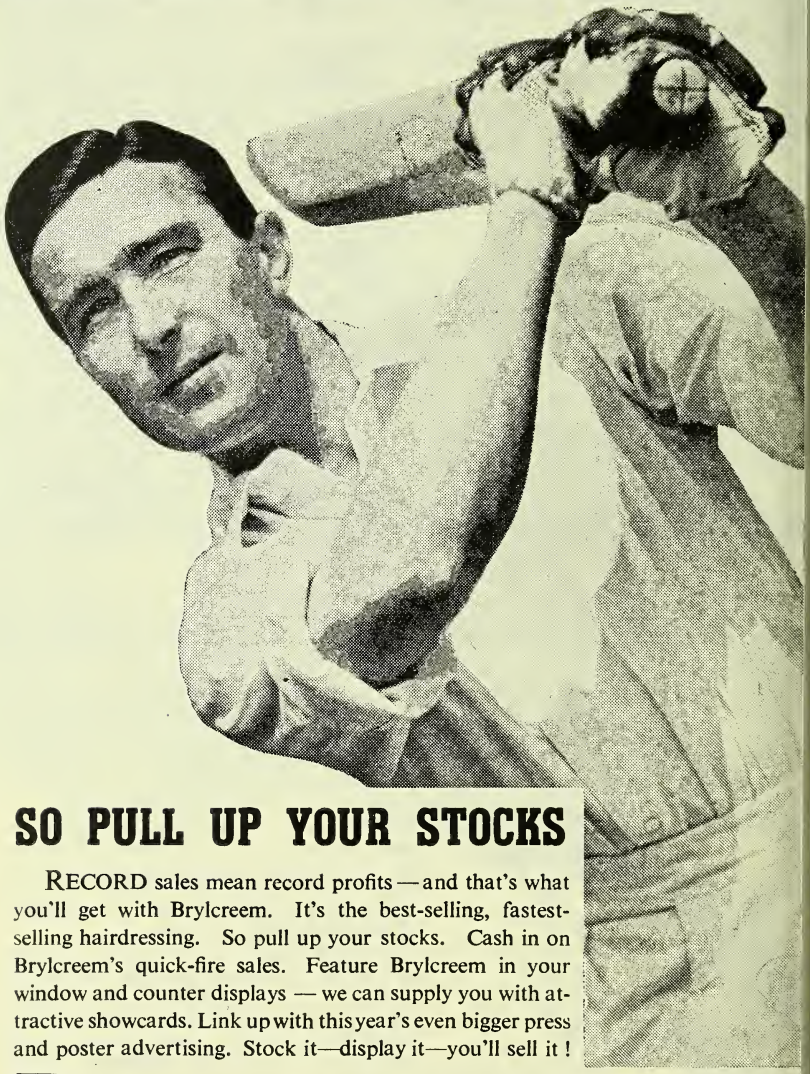
Just as modern engineers harness the power of water, so a sound business makes full use of the power of good printing. What is more, good printing goes beyond the mere conveyance of a message—it acts as an ambassador of goodwill wherever it is seen.

The highest standard of printing should always be your aim. Let us help you when next you are planning brochures, showcards, cartons, labels, etc. We are proud of the knowledge we have gained in our 70 years' experience and we shall be pleased to place this knowledge at your service.

THOMAS WAIDE & SONS LTD.
KIRKSTALL HILL, LEEDS, 5

Print Specialists for over seventy years

RECORDS GO FOR SIX



SO PULL UP YOUR STOCKS

RECORD sales mean record profits—and that's what you'll get with Brylcreem. It's the best-selling, fastest-selling hairdressing. So pull up your stocks. Cash in on Brylcreem's quick-fire sales. Feature Brylcreem in your window and counter displays — we can supply you with attractive showcards. Link up with this year's even bigger press and poster advertising. Stock it—display it—you'll sell it!

BRYLCREEM

THE PERFECT HAIR DRESSIN

County Perfumery Co., Ltd., Honeypot Lane, Stanmore, Middlesex *royds*

hey will all be reading this!...

This is one of the new ENO advertisements now appearing in the National and Provincial Press and in all important magazines. It forms part of a great Summer campaign, which also includes effective outdoor publicity of many kinds. Thousands of people, going on holiday every week, will be anxious to guard against upset systems which may spoil their pleasure. This eye-catching advertisement tells them how ENO'S will help them to enjoy their holiday to the full.

Cash in on this widespread public interest with prominent displays, and stock up now wi.h good supplies of 'holiday Eno's'.

Supplies are now available o

NURONA

Sunbronze and Suntan **CREAMS**

Made to a formula originally designed for sun-ray practitioners, the efficiency of Nurona is unsurpassed.

Nurona prevents or relieves painful sunburn and assists rapid tanning.

JAMES WOOLLEY, SONS, & CO. LTD.
Victoria Bridge, Manchester, 3

WI

For over 60 years
ibbs Superfatted Cold Cream Soap
has been valued for its
***skin beauty** care . . .*

Now
with the addition of LIRIL to this beauty soap

Astral GIBBS CREAM SOAP opens a new chapter in the care of SKIN SUPPLENESS

- **Only Astral contains Liril***
- **Backed by striking national advertising**
- **Attractive profit margins**
- **Elegantly wrapped**
- **Supplies ready to meet your demand**

* Liril is the proprietary name of a newly-perfected brand of ingredient blending 3 elements of special value to the skin.

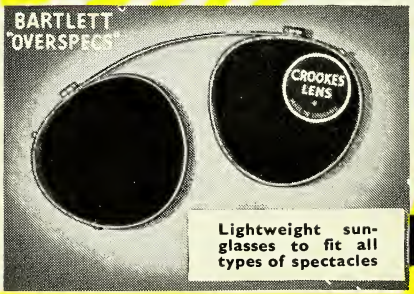
l your Gibbs Cold Cream Soap customers about s new development in their favourite toilet soap!

D. & W. GIBBS LIMITED

062-100

OPTICALLY MADE SUNGLASSES

FOR 1949



Lightweight sunglasses to fit all types of spectacles

Latest imported French s[illegible] as shown above and full r[illegible] of British made sungla[illegible]

Fitted with CROOKES LENS[illegible]

WHOLESALE ENQUIRIES ONLY TO

ALFRED FRANKS & BARTLETT Co., L[illegible]

From your usual wholesaler

AUDREY HOUSE, ELY PLA[illegible]
LONDON, E.C.1

A Pharmaceutical Achievement

MAGSILATE

ASPIRIN THERAPY BROUGHT TO PERFECTION

MAGSILATE

EATEN LIKE A SWEET

Anytime—Anywhere. No water required

Quicker absorption—more effective action
Fully protected against deterioration
No gastric disturbance. Palatable.

Magsilate is a CF Product, sold *through Chemists only*. Terms are profitable. Attractive show-cards, informative literature and free samples supplied with orders.

Supplied in 2 sizes 4d. and 1/10 (incl. P. Tax) and Dispensing Packs of 125 and 500 Tablets 9/- and 35/- Free of P. Tax

CF

ATA.

STMINSTER LABORATORIES LTD. CHALCOT ROAD, LONDON N.W.1

HIGH GRADE HOT-WATER BOTTLES

Made of pure seamless Rubber Latex, Veedip hot-water bottles have unique thermal properties: boiling water may be used: they never become too hot to be placed against the skin and they retain heat longer than other types of hot-water bottle.

All Veedip hot-water bottles are supplied in a range of pleasing colours, packed in attractive cellophane containers.

VEEDIP LIMITED

ST HELENS WORKS SLOUGH BUCKS ENGLAN

Profit by popularity!

The Laxative for the Million

cham's Pills are about the nearest thing to hard cash you e on your shelf today. They are a sure safeguard against commonest of everyday ills, and generations have vouched their efficacy.

good display will bring a quick response in turnover—and fits. Write now for a new set of display material.

Beecham's Pills

A Product of

ECHAMS PILLS LTD., ST. HELENS, LANCS.

c

Are You Stocking?

NERVONE

SALES STEADILY INCREASING!

INCREASED advertising is now in force and more and more of your customers will ask you for "Nervone"—the new biochemic remedy for nervous disorders.

You should make sure of your share of this profitable business by stocking and displaying. Show material gladly sent free on request.

P.A.T.A.

Retail	(including Tax)	Wholesale
3/3, 5/6, 22/- per packet		28/5, 48/-, 192/- per doz.

"NERVONE"

Cecil House, Holborn Viaduct, London

PEBOCL

MANUFACTURERS OF

VITAMIN D

Enquiries to

SALES OFFICE,
629, TOWER BUILDING,
WATER STREET,
LIVERPOOL. 3.

LABORATORIES · GREENFORD · M DX

DRUM TILTS

For 40—45 gal. Drums. For and safe draining. Price 70/- e

W. SHUPAK & Co. L
2 Stothard Place, Bishop ate
BIShopsgate 9139-9149 **London, C.**

MILLAMALT

Sole Manufacturers: JEFFREYS, MILLER & CO. LTD (A6500 I.U., D400 I.U. PER FL. OZ.)
Leyland Mills, Wigan. *London Dept.* 19 Brookside Rd. N

Malt Extract with added Natural Vitamin

The House for
TABLETS & PILLS
A complete range supplied packed or in bulk. Also we make to private and special formulæ.
PROPRIETARY REMEDIES PREPARED & PACKED—

BULK TABLETS
supplied in convenient quantities from 100 upwards
Copy of our N.F. 1949 list sent on request.

SACCHARIN TABLETS in pkts. of 100 or in Bulk.

The **COOPER** *Laboratory Ltd*

THE SPECIALIST HOU
WATFORD

Introducing . . .

"MESONTOIN"

A marked advance in the treatment of

EPILEPSY

GRAND MAL, JACKSONIAN AND PSYCHOMOTOR ATTACKS

Mesontoin offers considerable advantages over other hydantoins, in that the incidence of side effects is low, the dosage may be maintained at a high level, and that more effective control is obtained in resistant cases

Loscalzo, A. E. : J. Amer. med. Ass., 1947, **135**, 496.
Lennox, W. G. : Amer. J. Psychiat., 1946, **103**, 159.
Harris, T., and Otto, J. : Texas Sta. J. Med., 1947, **43**, 328.

SANDOZ PRODUCTS LIMITED

134 Wigmore Street, London W.1

ATOMISATION THERAP

Wherever a respiratory atomiser is indicated you are safe in sug st-
ing one from the Moore Medicinal Products range of inha rs.

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  (Amber and Clear)
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It's magic! Peter Claridge's two brilliant perfumes 'Dual Control' and 'Smart Party' will have a big publicity tie-up with the Warner Brothers film 'It's Magic.' Look out for it at your local cinema. Ask the manager to give you display material.

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TRUSS FITTIN

Under the National Health Service th appliances can be ordered on EC10 forms.

Pharmacists should be fully acquainted w the practical details involved in the supply and fitting of them.

The informative series of articles on the s ject recently published in The CHEMIST A DRUGGIST have been reprinted in book form, "THE FITTING OF TRUSSES A ELASTIC HOSIERY," which provides full formation in concise detail. Copies should handy for reference purposes in ev pharmacy.

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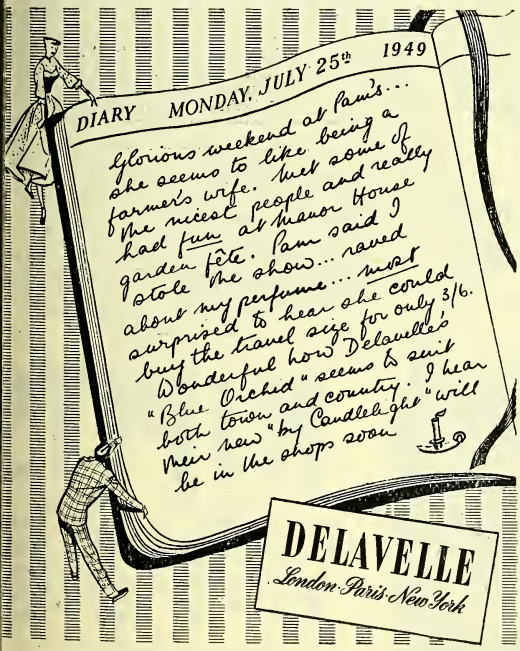

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- Dressings & Cotton Wools
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- TOILET REQUISITES

COMPLETE STOCKS

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protects hands against the dirt of daily work

Samples and prices will be sent gladly on application to the

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Subsidiary of Woolcombers Ltd.
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hand protective cre

A Westbrook PRODUCT

TEN MILLION NEWSPAPERS DAIL

advertise "ORICOL" Instant Curl Cap

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Write for details free local advertisin

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D.C.L. VITAMIN B_1 YEAST TABLETS

Each ounce contains a n Vitamin B potency e lent to that of 25 Aneurin Hydrochlorid mgm. of Riboflavin, a mgm. Nicotinic Acid. Each Tablet contains 1 (approx.) Vitamin B_1.
100 TABLETS 8s. 9
50 TABLETS 2s. 3
THE DISTILLERS CO., EDINBURGH.

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THE POPULAR MEDICATED PASTILLES

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41%
PROFIT FOR THE RETAILER

Rimmel Soaps give retailers a profit of 41% *(46% on a £15 parcel!)* on the selling price of 1/4½ per tablet. Terms to retailer: 9/9 per dozen less 2½%—plus tax. Terms to wholesaler: less 2½% and 12½%. Now is the time to order Rimmel Soaps. If you have already allocated your S.P.'s for this period, make sure of future supplies by placing a regular period reservation for these profitable 3 oz. tablets. All Rimmel Soaps contain genuine French imported perfume.

RIMMEL DISTRIBUTORS LTD., NORTH ROW, PARK LANE, LONDON, W.1

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A Quick Turnover

'SLEEK' plastic adhesive strapping is a first-class product which has received an enthusiastic welcome from doctors and nurses. Turnover is quick and supplies are ample. Display it and introduce it to your customers.

We have produced a 'SLEEK' Sales Manual which will tell you and your staff all you want to know about the product. Ask our representative for a copy or send us a postcard.

1" x 5 yard spools . . . **Retail 2/- each**
2" x 5 yard spools . . . **Retail 3/6 each**
Available in flesh colour or white

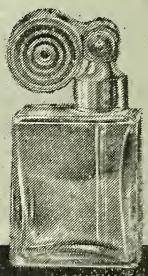
'Sleek'
TRADE MARK

PLASTIC ADHESIVE

STRAPPING

Herts Pharmaceuticals Ltd., Welwyn Gdn. City, Herts.
Telephone: Wel. Garden 3333 S13

A welcome return



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Imported from France and assembled by experts in our London Factory.

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. . . have pleasure in announcing to their

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BELFAST

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We hope that this new arrangement will be beneficial to our friends in Ulster, and that, through our Agents, we may look forward to a continuance of their valued support.

POTTER & CLARKE LTD.

LONDON & MANCHESTER

Big advertising drive makes *Wisdom* REGD. toothbrushes *easier to sell than ever!*

HOW ARE YOUR STOCKS?

EVEN during the "off" season for toothbrush sales, Wisdom sales continue to increase steadily. Now, at the height of the selling season, Wisdom is supported by the most intensive toothbrush advertising in years. This means that your Wisdom stocks will move faster than ever, bring you even quicker returns. How are your stocks of Wisdom? Be sure that they are adequate to meet the holiday demand. Wisdom Extra cost you 12/6 per dozen plus purchase tax, to retail at 1/11 each including tax.

BRISTLE AS WELL AS NYLON

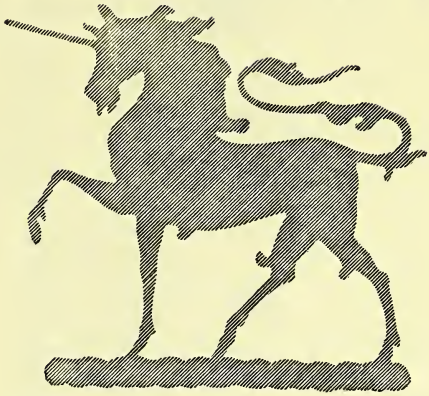
Although only recently introduced, Wisdom Bristle is alrea rivalling Wisdom Extra for quick sales. And no wonde Guaranteed made only from Chungking and Siberian brist it is a brush you can recommend to your most particu customer with complete confidence.

Wisdom REGD.

THE QUICKEST-SELLING TOOTHBRUS

ADDIS LIMITED OF HERTFORD · ESTABLISHED 17

he **brand** *nakes the listinction*



armacists have learnt to tame the vegetable rgatives, known in other centuries for eir vigour. They have combined very small ses of several, so that adequate laxative tion is obtained without causing irritation. gentle natural action and sustained intestinal ne are finally ensured by adding a mild tispasmodic and a carminative.

Such is the art which goes to make 'abloid' brand Laxative Vegetable.

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Extract of Jalap	gr. 1/2
Podophyllum Resin	gr. 1/4
Green Extract of Hyoscyamus, B.P. 1898	gr. 1/4
Menthol...	gr. 1/20

Retail Prices :

Bottle of 25.....1s. 0d. plus 3d. tax

Bottle of 100.....2s. 10d. plus 8½d. tax

'Tabloid' BRAND Laxative Vegetable

(REVISED FORMULA)

BURROUGHS WELLCOME & CO. *(The Wellcome Foundation Ltd.)*, **LONDON**

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MARTINDALE

"E·S·T·P"

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Ether-Soluble Tar Paste

An advance in coal tar therapy. Of particular value in eczema of all forms.

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Carbachol

Powerful parasympathetic stimulant.

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Tablets

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MARTINDALE

"STERULES"

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Wide range of products for injection.

"Dr. JENNER'S ABSORBENT LOZENGES"

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Digestive Tablets

Famous for 150 years for indigestion.

"MEDILAX"

TRADE MARK BRAND

Laxative Pellets

Something more persuasive.

Full details on request to :—

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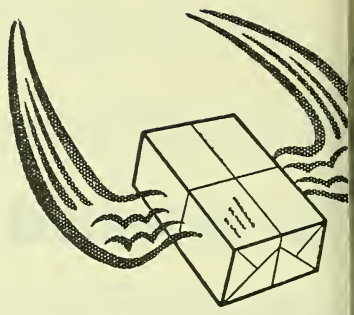
Chemists to The King

Lawrence Road, Tottenham, N.15



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This is a service you can rely on; every order is an emergency order.

Write, telephone or wire your instructions.

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LONDON, EC4

TELEPHONE CENTRAL 9781

The

CHEMIST AND DRUGGIST

for RETAILER—WHOLESALER—MANUFACTURER

JULY 30, 1949

Published weekly at 28 Essex Street, Strand, London, W.C.2

Telephone: Central 6565 (10 lines). Telegrams: "Chemicus, Estrand, London."

copies 1/- each. Annual subscription, which includes The Chemist and Druggist Diary and Year Book, 30/-

o. 3623 Volume CLII

CONTENTS

ssociation for Northern Rhodesia 139
ooks, New 141
usiness Changes 132
oming Events 137
ompany News 132
orrespondence 153
eaths 134
ditorial Articles:—
Conservatives' Health Policy ... 145
Exports in June 145
Bulgarian Otto of Rose 146
ifty Years Ago 153
orgotten Corners of the World ... 147
uide to New Medicaments ... 154
um Mastic in Chios 142
alf-year's Trade 155
ospital Pharmacy in New York ... 140
Legal Reports 132
Local News 131
Marriages 134
Medical Abstracts 149
"New" Plant by Welding 148
Pectate from Sisal Waste 150
Personalities 135
Petroleum Chemicals 143
Postage Stamps Personalities.—1. ... 151
Recent Research 152
Report on Insecticides 153
The Week in Parliament 135
Topical Reflections 133
Trade Marks 160
Trade Notes 136
Trade Report 156
Viruses and Virus Diseases—3 ... 138

NEWS OF THE WEEK

chool Speech Day. — The annual ch day of the Royal Commercial vellers' Schools, held recently, was at-ed by some 280 guests. Mr. J. Free-Dunn (chairman of the board of agement) presided.

.S.A. Penicillin Licences.—Licences er the Therapeutic Substances Act, 5, for dispensing penicillin injections recently been granted to the follow-:—AYLESBURY, BUCKS: Mr. W. Rouse, High Street. BEXLEYHEATH, KENT: W. A. Smith, 182 Broadway. UCESTER: Walwins (Chemists), Ltd., Gloucester Pharmacy, 47 Southgate et. SOUTHPORT, LANCS: J. R. Cave, ., 52 Nevill Street. WAKEFIELD, YORKS: C. W. Duffin, 15 Silver Street.

tillbirth and Infant Mortality Rates.—Registrar-General announced on July that the number of stillbirths registered ing the second quarter of 1949 was 0, giving a rate of 22.7 per 1,000 total and stillbirths (the lowest rate ever rded for a June quarter). Deaths of babies under one year during the quarter numbered 5,694, representing an infant mortality rate of thirty per 1,000 related live births (also the lowest ever recorded for a June quarter).

Chemicals Productivity Conference.—A productivity conference between representatives of the trade unions concerned in the manufacture of heavy chemicals, plastics and fertilisers, and members of the General Council of the Trades Union Congress was held recently. Methods of spreading industrial and productivity information at workshop level were discussed. It was stated there were no restrictive or traditional craft practices in the industry.

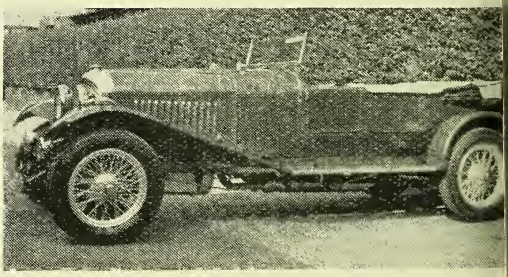
British Mineral Resources.—The Mineral Development Committee, set up by the Minister of Fuel and Power to inquire into the resources of minerals (excluding coal, oil and bedded ironstone) in the United Kingdom, has issued its report. It recommends the establishment of a permanent Mineral Development Commission

which should acquire the ownership of mineral rights. The report is published by H.M. Stationery Office, price 2s.

Purchase Tax Change.—The Treasury has made an Order (S.I. 1949 No. 1342), under Section 21 of the Finance Act, 1948, and entitled the Purchase Tax (No. 2) Order, 1949, which removes from a charge of purchase tax under Group 23 receptacles "of a kind used primarily for the purposes of any trade, profession, employment or vocation" (including scientific instrument cases, etc.). The Order came into force on July 25. H.M. Customs and Excise point out that where a specialised receptacle, whose sole or main purpose is as a carrier for the fitted contents, contains a set of toilet requisites, the requisites are assessable for tax as a whole, i.e. as a toilet set, at 100 per cent under Group 31 (a) of the Tax Schedule.

Ministry's Pamphlet on N.H.S.—The Ministry of Health has compiled a 35-page pamphlet "The National Health Service" (H.M. Stationery Office, price 6d.) designed to interest contributors to the service. It contains an outline of the structure and working of hospital and specialist services, the services of local health authorities, a review of conditions between the family doctor and his patients and details of relations between the authorities and the professions concerned, together with (a) a map showing the areas controlled by the 146 local health authorities and the 138 executive councils, (b) diagram showing the structure of the organisation of the service, and (c) map showing the areas controlled by the fourteen regional hospital boards. The only reference to pharmacy or pharmacists is under "Health Centres" v it is stated "These will be buildin which accommodation will be provide a group of family doctors and perhap for dentists, pharmaceutical servic maternity and child welfare centre nursing and midwifery staff."

Sweets Rationing Again.—The ra ing of chocolate and sugar confecti is to be reimposed from August 14 which date the Rationing (Personal P Order is being re-enacted. On and s quently to that date consumers must render personal points coupons when ing chocolate, chocolate confectionery, sugar confectionery falling within Chocolate, Sugar Confectionery and C Products Order, 1949, and formerly ject to rationing. Medicated sweets were previously free from personal p rationing are again ration-free. Per points are not required to be transf for goods dispatched to distributors b August 14. For ration period No. 4, w begins on August 14 and ends on Sep ber 10, the ration of chocolate and s will be 16 oz. Valid coupons for period will be those marked "D" "E," and numbered "4," on p. 3 the 1949-50 ration book. The valu these coupons will be:—"D" coupons points each; and "E" coupons, two p each. "D" and "E" coupons from sonal points pages R.B. 11 and R.B. a form R.B. 12 or a Duty Ration R.B.8R will also be worth two points e To ensure that the consumer's allow is met in full, coupons valid for us ration period No. 4, but not used, wil valid for use in ration period No. 5.



MOTORING TROPHY.—Mr. E. W. Godding (general man Westminster Laboratories, Ltd.) was the winner of Bentley Drivers' Club *Concours d'Elégance*, held in Lo recently. Mr. Godding's car was the open tourer sh

LOCAL NEWS

Prescription Delivery Rejected. — An lication for a licence to inaugurate a very service of dispensed medicines in Glasgow area was rejected recently by Glasgow licensing authority for public ice vehicles.

Devon and Exeter Pharmaceutical nmittee.—Mr. H. Jarvis Graves, 21 The nd, Exmouth, has been appointed secry of the Devon and Exeter Pharmatical Committee in succession to Mr. R. B. Arnold, who resigned on June 30.

Guildford Pharmacists' Outing.—mbers of the Guildford Pharmacists' ociation visited Ciba Laboratories, Ltd., rsham, recently and were conducted a tour of the manufacturing plant. Mr. P. Sayers (Association president) exssed the visitors' thanks and Messrs. A. G. Chamings and Charles Taylor rended for the company. As a result of visit a lecture and a film show were anged for the Association's new promme.

Wolverhampton Officers.—The followofficers were elected by the Wolvernpton Branch of the Pharmaceutical iety on July 22:—*Chairman,* Mr. A. Rimmer; *Vice-chairman* and *Secrey,* Mr. J. Foster Taylor, Showell Circus, lverhampton; *Treasurer,* Mr. C. M. rner. The following are the new officers the Wolverhampton Chemists' Associa:—*Chairman,* Mr. D. A. Rimmer; *e-chairman, Treasurer* and *Secretary,* . J. Foster Taylor.

A Link with the Past.—Mr. W. C. bden (W. C. & H. Hebden, manufacing chemists, Halifax) is offering to the nadian Voltigeurs regiment a copy of a trait of his ancestor, John Hebden, in uniform of the regiment. John Heb, who was born in Halifax in 1779, s second-in-command of a force of about French-Canadians that helped in the t of 7,000 Americans at Chateaugay (on United States/Canadian border) in 13. Mr. W. C. Hebden's gift is the ult of a promise made during the rest war when he met members of the iment in Halifax.

Long Service Records.—Mr. Robert rnbull, for twenty-seven years mana of the Blackburn branch of Boots, d., received recently from the company, the occasion of his retirement, a canteen of cutlery. His fellow-managers in the Lancashire area presented him with a pair of binoculars, and the staff of his own branch with a mirror.—In appreciation of his thirty years' service as chief clerk, the directors of Dennis & Roberts, Ltd., druggists, Clumber Street, Nottingham, presented Mr. Edgar Baker with a radiogram and records at the company's staff dinner recently. The presentation was made by Mr. H. A. Roberts (chairman and managing director). Mr. Baker's colleagues presented him with a smoker's outfit.—More than 500 years' service with Evans Medical Supplies, Ltd., was ended recently when fourteen employees retired under the company's pension scheme. They included Mr. H. G. Leal, a former representative in the London area, who has had fifty-one years' service with Messrs. Evans.

Manchester N.H.S. Reviewed.—At a meeting of the Manchester Executive Council on July 20, the chairman (Mr. F. B. Dinsdale, J.P.) reviewed the first year's working of the National Health Service and gave the following statistics:—Estimated population, 696,000; persons on doctors' lists, 679,591 (97.5 per cent. of population); doctors on Executive Council list, 460; number of pharmacies, 266; prescriptions dispensed, 4,437,500 (approximate value, £632,000); total expenditure of Council, £2,253,500. He said there was cause for satisfaction in the way the Service had operated during the year and the manner in which the serious difficulties in its inauguration had been overcome by the Council and its staff. The medical and pharmaceutical services, with many years' experience of medical benefit under the National Health Insurance Acts, had been remarkably successful and free from complaints, and he thanked the doctors and chemists and the local medical and pharmaceutical committees.

IRISH NEWS

Sports Matches at Greystones.—The Dublin College of Pharmacy Gaelic Athletic Association and Camogie Clubs held an outing recently to Greystones, co. Wicklow. The football team beat a North Wicklow team by two points, and the camogie team also won its match. Both teams were later entertained to tea and a dance. The annual meeting of the Gaelic Athletic Association Club is to be held at 67 Lower Mount Street, Dublin, on September 27.

NEW COMPANIES

W. T. Coltman, Ltd. (P.C.).—Capital £20,000. To acquire the business of a wholesale and retail chemist now carried on as W. T. Coltman. Ronald M. Murray, M.P.S., William Anderson and James Coull, directors. R.O.: 7 Sussex Street, Middlesbrough.

W. Haigh (Chemist), Ltd. (P.C.).—Capital £1,500. To carry on the business of manufacturing, wholesale and retail chemists and druggists, opticians, etc. William Haigh, M.P.S., Mabel M. Haigh and Kathleen M. E. Haigh, directors. R.O.: 313 Stanstead Road, London, S.E.23.

Company News

Southon Laboratories, Ltd.—Following the recent amalgamation with Hirst, Brooke & Hirst, Ltd., Mr. Geoffrey Hirst has joined the board, which is now constituted as follows: Messrs. L. S. Southon (managing); G. A. N. Hirst; W. H. Culver; R. G. Wright, M.P.S.; E. C. Daniels; H. D. Smith, M.P.S.; J. C. Callaghan, Ph.C.

Goldthorpes (Chemists), Ltd.—Application has been made to the Stock Exchange, London, for permission to deal in and for quotation for the issued ordinary shares. The company was incorporated as a private limited company in January 1928 and was converted into a public company on March 23, 1949. The authorised capital is £50,000, divided into 1,000,000 ordinary shares of 1s. each, issued and fully paid.

BUSINESS CHANGES

Boots, Ltd., have appointed Mr. G. W. Telford, M.P.S., territorial general manager in the Edinburgh area.

Roussel Laboratories, Ltd., have removed to 4 Golden Square, London, W.1 (Telephone: Gerrard 3111).

Veno Drug Co., Ltd., are removing to St. Helens, Lancs (Telephone: St. Helens 2241), on August 2.

Mr. F. Clements (wholesale chemist's sundriesman), 94 Ockendon Road, Essex Road, London, N.1, now has the following telephone number: Canonbury 5911.

The Directorate of Sundry Materials, Board of Trade, is being transferred on August 2 to Empire House, St. Martins-le-Grand, London, E.C.1 (Telephone: Clerkenwell 7931).

The Thomas Hill Engineering (Hull), Ltd., makers of bottle-cl equipment, 247 Beverley Road, Hull appointed Mr. T. E. Jones, B.A., field, Spencer Villas, Glenageary Dublin (Telephone: Dublin 84735) full-time representative for Eire and thern Ireland.

LEGAL REPORTS

Negligence Alleged.—At Manc assizes recently, Beatrice Stein, Bra Street, Higher Broughton, Salford awarded £500 damages and costs a Dr. Thomas Peacock Edwards, Ale Road, Blackpool, who was alleged t been negligent in administering Pen

Traffic in Narcotics.—At Birmi Assizes recently, Kenneth Thomas 35 Well Street, Coventry, a former p room assistant at Wyleys, Ltd., Co was sentenced to twelve months' imp ment for stealing cocaine, morphin phate and Omnopon from his emp ("You were employed in a positi trust," said the judge. "From wh have been told in court it does not a you got very much financially out —5s. on occasions, or some quite sum.") Peter Bertrand Stevens storekeeper, 74 Vine Street, Coven former employee of Messrs. Wyley' sentenced to fifteen months' impriso for stealing drugs, procuring their and receiving them. ("You were r sible for persuading Mills to acquire goods from the Dangerous Drugs You had a means of disposing of t Albert Frederick Revell, stoker, 117 Green Road, Birmingham, was sen to twelve months' imprisonment f ceiving and procuring the theft of of the drugs. ("Your part seems subsidiary to, and running alongsid of Smith. So far as I can see yo not in fact get very much out of it. were a go-between.") Frederick Bar coloured man, Prince's Gardens, water, London, W., who was convic receiving and being in possession of for the purpose of selling them in L submitted a ten-page statement t judge, who postponed sentence. La passing sentence, the judge said "I had preyed on the weakness of at one woman drug addict." The senter Barnes was one of five years' impriso plus a fine of £250. He was also o to pay costs not exceeding £250.

TOPICAL REFLECTIONS

eckers

The recent quarterly meeting of the ›prietary Articles Trade Association (p. ›) was the occasion of a helpful speech Mr. H. N. Linstead. One can fairly rectly guess the advice that would have ·n given at this meeting by Sir William yn-Jones, founder of the P.A.T.A. and ·. Linstead's predecessor at the Pharmaıtical Society's headquarters. Mr. ıstead's estimate of the situation conıting the Association would have ımmended itself to "G.-J." The latest ırterly report shows that price cutters not an extinct race: this fact has still be reckoned with. Behind this trouble the more serious one that the trade in ›prietary articles is threatened by people o wish it harm. "There were those," ·. Linstead said, "who would not mind retail trade reverted to the one-time ıos of price cutting, for that would be a tification for Government control over other section of industry." Everyone h experience of the relations between nufacturers, wholesalers and retailers l agree with the speaker that no system price maintenance evolved by and con-ed to an individual manufacturer is of ı value. Let us suppose that Governnt control of proprietary articles of all ds was established. The present balance ween the three sections of the trade uld be abolished. New margins of profit uld be dictated from Whitehall. Would se margins be equitable? The probabıy is that a multitude of regulations for purchase, manufacture, and sale of all commodities covered by the work the P.A.T.A. would be forced on the des concerned, and that those regulans would render business unprofitable. ınufacturers whose output was confined goods of this nature might have to go of business; wholesalers and retailers uld have to adjust their trading policies best they could.

S.N.I. Silver Jubilee

The announcement that the Pharmaceual Society of Northern Ireland intends celebrate its silver jubilee, when it falls xt year, is of much interest. When, in 25, the formation of the Society was der discussion, it was realised that there s an opportunity for drafting an Act of rliament which would be an improvent on the existing British statutes governing pharmacy. The founders of the Society obtained good advice, with the result that the Pharmacy and Poisons Act (Northern Ireland), 1925 was an example of well-considered legislation. The first Council of the Society was appointed by an Order made under the Act. It was a strong team. Mr. Horatio Todd was the president, and Mr. Fred Storey the vice-president; the other members included Mr. T. W. McMullan, M.P., Dr. V. G. L. Fielden, Professor J. E. MacIlwaine, M.D., Dr. S. E. A. Acheson, Mr. J. C. Culbert, Mr. H. G. Pring, Mr. J. E. Connor, Mr. W. J. Rankin and Mr. W. J. Hardy. The first meeting of the Council was attended by Sir Dawson Bates, Minister of Home Affairs, who testified to the help received from local pharmaceutical organisations in shaping the Pharmacy Bill in the Parliament of Northern Ireland. Notable service was rendered to the Society by Mr. D. L. Kirkpatrick; he held office as secretary for about twenty-one years.

Buchu Leaves

It appears that in Cape Province the growing of buchu leaves is more profitable than the cultivation of grapes for wine (p. 99). I notice that in your issue of July 23 this drug is quoted at a market price of 3s. 7d. per lb., whereas twenty years ago (*C. & D.*, July 27, 1929) the corresponding price was 1s. 1d. If I am not mistaken, the use of buchu in the United Kingdom has diminished considerably in recent years; the existing demand for it must therefore reach the growers from other parts of the world. The earliest quotation for the word buchu in the Oxford English Dictionary refers to a different plant. It is dated 1731, and reads: "Men and women . . . powder themselves all over with buchu." In the ninth edition of the Encyclopædia Britannica it is stated that buchu, steeped in brandy or vinegar, is applied as an embrocation for sprains and other ailments; on February 7, 1925 you noted that in South Africa an infusion in brandy had long been used as a stomachic. In the same paragraph it was mentioned that imports into the United States were rising, while those into Great Britain were falling. The fact that buchu invariably contains a proportion of stalks, and may be adulterated with leaves of similar appearance, tends to render its purchase somewhat of a lottery.

Xrayser

MARRIAGES

ARTHURS—MCELEAVY.—At Keady, co. Armagh, Northern Ireland, on June 28, Bernard Arthurs, to Rosaleen McEleavy, M.P.S.N.I., Keady.

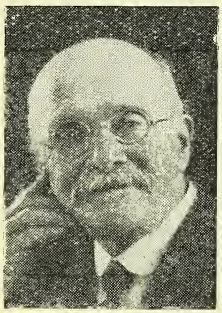
LINDEN—HENEY.—At Ballywatt, Northern Ireland, on June 1, Robert Desmond Linden, M.B., B.Ch., B.A.O, Portstewart, to Margaret Couser Heney, M.P.S.N.I., Portstewart.

DEATHS

BAKER.—On July 21, as the outcome of a motoring accident at York, Mr. John Valentine Baker, M.P.S., a son of Mr. A. J. J. Baker, M.P.S., Woodstock, Thundersley Grove, Thundersley. Mr. J. V. Baker qualified in 1935, and was a manager for T. C. Mansell, Ltd., 177 Cricklewood Broadway, London, N.W.2.

HEWTON.—At Bangor, co. Down, on July 19, Mr. John Hewton, L.P.S.I., M.P.S.N.I. Mr. Hewton was in business at 309 Ormeau Road, Belfast, for nearly forty years. He retired at the outbreak of the war when the business became the Ava Pharmacy, Ltd.

HIRESON.—On July 19, Mr. George Jewell Hireson, a pensioner of Howards & Sons, Ltd., Ilford, aged ninety-five. Mr. Hireson was born in a cottage on the works at Stratford in 1854 and, as a boy, frequently met Luke Howard, F.R.S., who founded the business in 1797. He worked as a carpenter for the firm from 1866 to 1924, after which he became a pensioner. Throughout he was a loyal and affectionate friend of five generations of the Howard family in the business. He attended seventy-five consecutive dinners of the company's cricket and sports club, and as recently as March 1949 attended a dinner given to veterans in the company's service, at which he made an excellent little speech. That occasion was actually the first on which he had ever been in a lift. "It may be doubted," writes a colleague, "whether, in the whole of British industry, there has been a simil record of service or a more interesting li with the past."



MALCOLM.—At his home on July 17, af a relatively brief illness. Mr. George M colm, a founder director of Britt Malcolm & Co., Ltd., 38 Southwark Brid Road, London, S.E.1. "His chief inter in life," writes a colleague, "centred on t company's development, and we are gl to think he was fully aware that his effo greatly contributed to the success of venture which, in fact, owed its origin t suggestion made by him."

MIDDLETON.—At Peterborough Memor Hospital, on July 18, as the result of accident in his shop on July 16, M Francis Duncan Middleton, M.P.S., T Midgate Pharmacy, Peterborough. M Middleton, the son of a pharmacist, qua fied after serving in the 1914-18 war. managed a pharmacy at Leyton until home was destroyed in the blitz. opened the Midgate Pharmacy, Peterb ough, in 1940. In October 1948 he co menced his second terms of office as p sident of the Peterborough Chemists' As ciation and president of the local bran of the Pharmaceutical Society.

NAYLOR.—On July 6, after a long ness, Mr. Sidney Naylor, M.P.S., 6 Seaside Road, Eastbourne, aged fifty-fi

PADGET.—At Chepstow Hospital on Ju 11, Mr. William Henry Padget, M.P.S., Commercial Road, Newport, Mon, ag seventy-eight. Mr. Padget was pharmac at the Royal Gwent Hospital, Newpo for fourteen years before setting up business on his own account at Commerc Road, Newport, in 1921. He had serv terms of office as president of Newp Chemists' Association and chairman of t Newport Insurance Committee.

SHAW.—On July 9, Mr. Alfred Sha M.P.S., 774 Barking Road, London, E. Mr. Shaw qualified in 1922.

WILLS

MR. A. G. GILES, M.P.S., Winches House, The Broadway, Totland Bay, I of Wight, left £10,199 (£8,138 net).

MR. HENRY SMITH, Gortmore, Alb Park, Ballymagroarty, co. Londonder and 44 Foyle Street, Londonderry, f merly head of Robert Smith & Co., who sale druggists, left £51,370 (in Engla and Northern Ireland).

'HE WEEK IN PARLIAMENT

EWS of a substitute for linseed oil was ven recently by Lord Hankey in a bate on colonial development. From West African weed, he said, a group of verpool scientists had produced a valu- le oil known as conophor oil. It must remembered that it did not follow that weed could be grown as a crop. The atter was being actively pursued under olonial Office direction, and according to e latest information he had, the oil was tremely promising as a substitute for lin- ed oil. There was a promising rubber- ed oil which would be a by-product of e rubber industry. This had passed both ientific and practical tests, but had un- rtunately been held up in development the unsettled conditions in Malaya. ccomplishments in sugar research varied om a substitute for blood plasma, which d been used in concentrations up to 50 r cent., to an anti-freeze mixture.

A.Y.E. Tables

COLONEL CLIFTON-BROWN asked the nancial Secretary to the Treasury on ly 19 why special instructions had not en issued to employers in 1948 inform- g them that new tax deduction tables r weeks 14-21 would not be issued in 49. MR. GLENVIL HALL replied that a ecial instruction not to destroy the 1948 bles, since they might be needed again, s printed in bold type on the front page the tables. A supply of the tables was w available at the tax office for em- oyers who had mislaid their copies.

ice Maintenance and Wages

MR. P. ROBERTS asked the President of e Board of Trade on July 19 whether, fore taking any final decisions about the plementation of the Report of the Re- le Price Maintenance Committee he uld initiate an inquiry into the extent which such implementation would oblige opkeepers, and especially small shop- epers, to reduce the wages or number their assistants. MR. JOHN EDWARDS arliamentary Secretary) replied "No."

ick-egg Poisoning

MR. SKEFFINGTON-LODGE referred on ly 21 to recent food poisonings traced duck eggs and was told by the Minister Health (MR. ANEURIN BEVAN) that duck gs should not be eaten uncooked or pre- ved in waterglass.

PERSONALITIES

MR. H. JORY (chairman of the Cornwall Pharmaceutical Committee) has left Britain in R.H.S. Franconia for a holiday in Canada.

MR. W. C. MOORE, M.A., has been appointed Director of the Plant Pathology Laboratory of the Ministry of Agriculture and Fisheries, Harpenden, Herts.

PROFESSOR E. C. BULLARD, F.R.S., has been appointed director of the National Physical Laboratory, in succession to Sir Charles Darwin, F.R.S. Professor Bullard, who is at present Professor of Physics, University of Toronto, is expected to take up his new duties in January 1950.

MR. P. J. HALSEY (general sales manager, Aspro, Ltd.) has been elected chairman of the Berks and Bucks Publicity Club. Members of the Club's council include Messrs. A. G. Bitton (advertising manager, Ex-Lax, Ltd.) and H. F. Chilton (assistant publicity manager, Horlicks, Ltd.).

SIR ROBERT SINCLAIR, K.C.B., K.B.E., was elected president of the Federation of British Industries at its annual meeting in London recently. Sir Robert Sinclair is chairman of the Imperial Tobacco Co., Ltd. During the 1939-45 war he was Director-General of Army Requirements, War Office, a member of the Army Council and of the Supply Council. Later in the war, he was appointed Deputy for the Minister of Production on the Combined Production and Resources Board at Washington, and Official Chief Executive at the Ministry of Production

MR. W. E. GAZE, who was recently re-elected secretary of the Walthamstow Pharmaceutical Association and Branch of the National Pharmaceutical Union, took part in founding the Association in 1919, and has been its secretary since 1920. He has also been secretary of the N.P.U. branch since its formation in 1931. Mr. Gaze was the first secretary of the East Metropolitan Branch of the Pharmaceutical Society, holding the office for seven years, and was for three years an invigilator at the Society's written examinations in London.

Away From It All.—"Druggist Charley Lupica, of Cleveland, Ohio, U.S.A., has spend forty-one days on top of a flagpole waiting till his favourite baseball team heads the league."—"News Chronicle."

TRADE NOTES

New Size.—Wernet Dental Manufacturing Co., Welwyn Garden City, Herts, are now issuing Ammi-dent in 1½-oz. as well as 3-oz. pourer tins.

Now Freely Available.—Pure Products, Ltd., Nottingham, announce that their V.I.P. baby soap, Tarlano and pine-balm toilet soap are now freely available.

Dispensing Pack.—A 600-tablet pack of Dolcin tablets (for arthritis and rheumatic disorders) is now available through the sole distributors, Tampax, Ltd., 110 Jermyn Street, London, S.W.1.

Low-priced Razor Set.—Gillette Industries, Ltd., Great West Road, Isleworth, Middlesex, recently introduced a new popular-priced Valet safety-razor set.

Northern Ireland Agents.—Potter & Clarke, Ltd., London and Manchester, have appointed Harold Mitchell & Co., Ltd., 321 Grosvenor Road, Belfast, their agents in Northern Ireland.

Popular-priced Foundation Cream.—F. W. Hampshire & Co., Ltd., Sunnydale, Derby, have introduced Snowfire matt base (foundation cream) in neatly printed handbag-size tins. Bonus terms are offered in return for display.

Opener for Screw-top Bottles.—Trade prices for the Hujah opener, a device for loosening the tops of screw-capped containers, are obtainable from the manufacturer, Mrs. G. Webb, 94 Beechwood Park Road, Solihull, Birmingham.

New Crop Lavender Flowers.—Perks & Llewellyn, High Street, Mitcham, have sent in a sample of new-crop lavender flowers. The spikes are of good colour and oil gland development is well marked. The stalks are long and green.

Price Reductions.—Perihel, Ltd., 17 Edge Street, London, W.8, are reducing the price of certain models of their ultra-violet and infra-red sun lamps. Details of a scheme for protecting trade profits are available on application to the company.

Malt Extract From Ireland.—Mountmellick Products, Ltd., Dublin, are now able to export malt extract with or without cod-liver oil to the United Kingdom under licence. Trade inquiries should be sent to the company's office, 29 South Frederick Street, Dublin, Ireland.

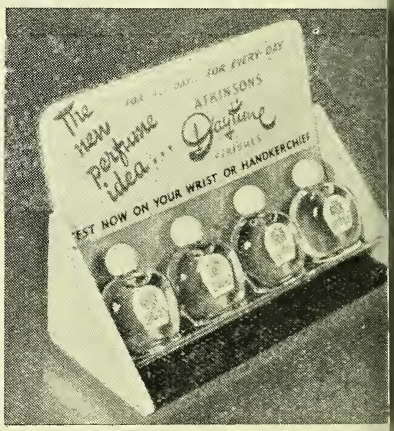
Perfume Sprays.—Marcel Franck & Co. (London), Ltd., 417 Battersea Park Road, London, S.W.11, have recomme manufacture of the Marcel F patented perfume and toilet sprays r eted under the titles Escale, Super Fiz Fizz. An illustrated price list is avai

Distribution in Ireland.—Ciba La tories, Ltd., Horsham, Sussex, anno that May Roberts (Ireland), Ltd., C Canal Quay, Dublin, C.6, have appointed sole agents for the distrib of Ciba preparations in the Republ Ireland.

Arrangements for Display.—Ha Stagg & Morgan, Ltd., Emmott S London, E.1, have made arranger with the Displaymax Co., London, E to put in a window display (as illust on another page) of Laurence's hair d the premises of any chemist willin feature this 150-year-old speciality.

New Œstrogens.—British Sche Ltd., 167 Great Portland Street, Lor W.1, have introduced Ethidol b ethinyl œstradiol, 0.01-mgm. and mgm. tablets, in bottles of twenty-five, and 500; and Disecron injection œstradiol monobenzoate, 2.5-mgm., progesterone, 12.5-mgm., in 1cc. oleate, for intramuscular injection boxes of two, ten and twenty-five ampo

Perfume Testing Stand.—Every tributor of Atkinson's new Daytime



fumes (see *C. & D.*, July 9, p. 41) is b sent by the manufacturers, J. & E. At son, Ltd., 24 Old Bond Street, Lon W.1, a testing stand as illustrated.

Change of Name.—The Anglo French ug Co., Ltd., 11 Guilford Street, Lon-n, W.C.1, remind wholesale and retail emists that they should return at once, credit or exchange, packages of digi-in-aminophylline tablets bearing the me Digophylline, A.F.D., for re-labelling h the new name, Di-Cardine.

Teething Emollient. — Pegol Products, l., Darwen, Lancs, have introduced gol "rubgum" for soothing infants dur- the tooth-cutting period and up to the of six or seven (when the permanent th make their appearance). The product, ich is on the C.F. list, has been on the rket in restricted areas of the north England since 1944.

Stilbœstrol for Caponisation. — Bur-ghs Wellcome & Co., 183 Euston Road, ndon, N.W.1, announce that Implantin nd stilbœstrol pure is now available for chemical caponisation of cockerels. e chemical process is claimed to save e and to obviate the risks of surgical onisation. Implantation of the syn-tic œstrogen results in increased weight l more tender flesh. The preparation is ied as a 15-mgm. product in tubes of enty-five. Supply is to veterinary sur-ns or on veterinary prescription only.

Not Makers of "A.P.L."—Antibody oducts, Ltd., Bushey Grove Road, Wat-d, Herts, point out that they are not the kers of a product described in the Press A.P.L. hormone, for which they have l many inquiries. It has no connection h A.P.L. serum derivative for inoper-e neoplasms which they manufacture. e letters A.P.L. in the context referred are understood to mean "anterior pit-ary-like" hormone, e.g., Antuitrin-S rke, Davis & Co.) or Pregnyl (Organon boratories, Ltd.).—EDITOR].

Holiday Closings.—All departments of following will be closed from Friday ening, July 29, until Tuesday morning, gust 2: CIBA LABORATORIES, LTD., rsham, Sussex; EVANS MEDICAL SUP-ES, LTD., Speke, Liverpool, 19 (comple-n of information previously given); C. J. WLETT & Co., LTD., 35 Charlotte eet, London, E.C.2; PAINES & BYRNE, D., Bilton Road, Greenford, and Middle-; SHARP & DOHME, LTD., Hoddesdon, rts. The works of THORNTON & ROSS, D., Linthwaite, Huddersfield, are closing annual holidays from Friday evening, gust 5 until Monday morning, August 15.

New Soapless Shampoo.—The Silvikrin Laboratories announce the introduction of a popular-priced soapless shampoo which includes in each pack sufficient for two shampoos, with a "radiant rinse." Retailers are being requested not to order more than 1 gross at a time until the shampoo is in full production. An attrac-

tive new display container to hold 3 doz. shampoos is being supplied free with all orders above a minimum 3-doz. order. Since July 1, the sole selling agents of Silvikrin preparations have been Prichard & Constance (Manufacturing), Ltd., North Circular Road, London, N.W.10.

Proprietary Articles Trade Association

Additions to Protected List (Part 1).—*Genatosan, Ltd.,* Sanatogen (new size) 4-oz., 40s. doz., tax 33⅓ per cent., inclusive retail price 5s. 6d.; 2-lb., 22s. 10d. each, tax 33⅓ per cent., i.r.p. 37s. 7d.

Alterations to List (Part 1).—*Eli Lilly & Co., Ltd.,* purchase tax exemptions, Amytal and acetylsalicylic acid Pulvules, No. 33, 40's, 40s. doz., 5s.; 100's, 92s. doz., 11s. 6d.; 500's, 400s. doz., 50s. Cevalin brand vitamin C tablets, No. 1585, 25-mgm., 100's 30s. doz., 3s. 9d.; 500's 126s. doz., 15s. 9d.; No. 1618, 50-mgm., 100's, 48s. doz., 6s.; 500's, 216s. doz., 27s.; No. 1600, 100-mgm., 100's, 84s. doz., 10s. 6d.; 500's, 388s. doz., 48s. 6d. Sodium salicylate Enseals, No. 28, 5-gr., 100's 42s., doz., 5s. 3d.

COMING EVENTS

Tuesday, August 2

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY. Visit to Evans Medical Supplies, Ltd., Speke (coach leaves Sheffield City Hall at 8.30 a.m.).

VIRUSES AND VIRUS DISEASES

By C. H. Andrewes, M.D., F.R.C.P., F.R.S.
(National Institute for Medical Research, London)

3.—Prevention and Treatment of Virus Diseases

SPECIFIC treatment of virus diseases lags behind that of other infections. Viruses safely ensconced within cells are protected from the action of antibodies outside the cell, and only rather simple chemotherapeutic agents would be likely to be capable of penetrating the cell and making effective contact. Preventive inoculation, however, can claim some of its greatest successes in the virus field.

Vaccines

Vaccination against small-pox is one of the oldest and still remains one of the most important specific measures in preventive medicine. It is not 100 per cent. perfect and is often unjustly damned because of its occasional failures. These are in part due to the innate variability of the human species—a few people are particularly hard to immunise; and partly to occasional failure to understand all the technical difficulties inherent in successful application of the method. Vaccination cannot prevent every individual from contracting smallpox, but it can prevent an epidemic. An urgent need at the present time is for a vaccine that can be distributed and will remain potent for some time in tropical countries, for smallpox vaccine contains living but attenuated, or modified, virus, and does not keep well except in the cold.

Yellow fever vaccine also contains living modified virus; in fact, a perfectly safe variant of the virus suitable for vaccination turned up in the laboratory almost accidentally. This is now propagated in fertile hen's eggs and one dose will give immunity of long duration. This is probably the most satisfactory application so far of vaccination against human virus diseases.

In veterinary medicine a vaccine can be used if it is economically justified, even though it causes unpleasant reactions, or even kills an occasional animal; such risks cannot be taken in human medicine. Vaccines are successfully used to help control dog distemper, cattle plague, swine fever, louping-ill in sheep, fowl-pox, rabies in dogs, and many other virus diseases; against foot-and-mouth disease they are of value in countries where the disease is endemic, but their use would be inadvisab in Britain in the circumstances of toda

Vaccines containing virus completely i activated (usually by formaldehyde) gi immunity to some viruses, but this usually not as enduring as when livi attenuated viruses are available. Again influenza such killed vaccines have be proved effective: why, then, are they n universally used? As mentioned in a earlier article (*C. & D.*, July 16, p. 7 there are two distinct influenza viruses, and B. But included in A, the more i portant virus, are varieties sufficient closely related to be still called Influen A, but sufficiently far apart in their ch mical make-up that a vaccine made again one variety will fail to protect again another variety. Thus, vaccines whi gave excellent results in 1943 quite fail in 1947 when a new "brand" of influen had appeared. The World Influenza Cent has lately been set up in London, under t World Health Organisation, to collect a compare strains of influenza from all ov the world. It hopes to trace the appea ance and wanderings from country country of "new" influenza strains a to be able, in due course, to warn cou tries of the likelihood of attack, so th vaccines appropriate for the strain co cerned may be used in good time. Th year (1949) the Centre found that strai from all over Western Europe were ide tical with each other and very closely r lated to strains of the last outbreak 1947. We need, therefore, to know rath more about the variability of influenza a how many varieties there may be befo we can hope to use vaccines successfull

No vaccine effective against the comm cold virus is available; the mixed bacteri vaccines commonly used against col have not shown up well in the most crit cally conducted trials. In one such tri 55 per cent. of those inoculated thoug they had benefited, but an even larg number of the controls who had receiv only saline took the same cheerful view.

Treatment

(1) *Use of Serums.* Serum treatment almost useless for the cure of vir diseases for the reason already mentioned it cannot get at the virus within the cell. has, however, one important use, f

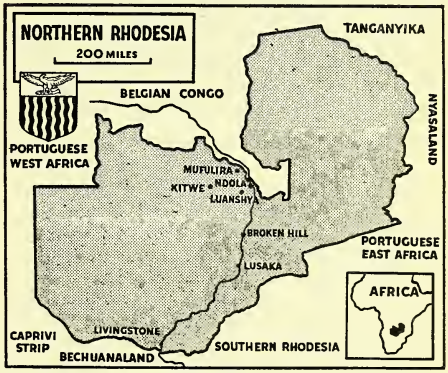
tenuating or modifying measles. Con-
lescent or pooled adult human serum, or
e gamma-globulin fraction of it, can be
ven in the incubation period to children
posed to measles. If the dose and the
ite are hit off just right, the child will
ve a trivial illness and yet be perma-
ntly proof against the measles virus.

(2) *Chemotherapy.* Successful chemo-
erapy of virus diseases is one of the cry-
g needs of medicine today. Success can,
present, be claimed only against one
oup of viruses. The largest viruses are
ose of psittacosis (parrot fever) and some
lated rare forms of pneumonia, lympho-
anuloma inguinale or venereum (the so-
lled fourth venereal disease), trachoma,
other eye disease not unlike trachoma,
d some pneumonias of animals (cats and
ice). These form a compact group of
ruses, differing from others in size and,
nongst other things, their susceptibility
chemotherapy. They are all influenced
some extent by penicillin and about half
them by sulphonamides also. This is
eering, as it shows there is no inherent
possibility in achieving successful chemo-
erapy in this field. Against other viruses
ere are hints leading to hopes of possible
future successes but nothing is yet positive.

(3) *Cold cures.* Cures of colds are most difficult to assess because it is so necessary to depend on subjective impressions on the part of both patient and clinical observer. Many cures (as distinct from temporarily alleviating drugs) have been acclaimed in the past and then forgotten. Bitter experience has shown that there is only one way to test cold cures. The pills (or whatever they are) must be duplicated by exactly similar pills containing no drug, but a placebo. Drug and placebo must be given to equal numbers of patients, who must be selected on an entirely random basis. Elaborate precautions must be taken so that neither patient nor clinical observer nor anyone else who has contact with the patients has any idea as to who gets drug and who is a control. The observer must commit himself in writing to an opinion as to who has apparently benefited before any disclosure on this matter is made. If these precautions are not taken, I, for one, shall not believe in the efficacy of any remedy, and I should be very surprised to learn that any of the many cures so widely advertised has successfully stood up to such a test.

N ASSOCIATION FOR NORTHERN RHODESIA

o meet the need for an organisation to
otect their interests, pharmacists in
orthern Rhodesia have established the
orthern Rhodesia Pharmaceutical Asso-
ation. The inaugural meeting, held at
twe on June 28, was attended by phar-
acists from Ndola, Luanshya, Kitwe and
ufulira and other towns in the copper
lt area. As the distances involved have
en the main difficulty in former attempts
establishing an organisation it was de-
led to set up Northern and Southern
anches of the Association. Mr. T. Little
uropean Hospital, Ndola) was appointed
cting Chairman of the Association, and
r. T. McEwan (Holdsworth & Co., Ltd.,
ufulira), *Acting Secretary.* Mr. R.
ancis, Ndola, was delegated to visit
saka to arrange a meeting of pharma-
sts to establish a Southern Branch (to
ver Broken Hill, Lusaka and Living-
one). The inaugural meeting at Kitwe
as attended by Mr. I. Barkhuysen (a
ember of the Pharmaceutical Societies of
reat Britain and of South Africa and
airman, Southern Transvaal Branch,
harmaceutical Society of South Africa),



who made some suggestions on the procedure to be followed and gave a detailed account of pharmaceutical organisations in South Africa and Great Britain. He conveyed greetings from the president of the Pharmaceutical Society of South Africa and promised that that Society would give the new body every possible assistance. A vote of thanks to Mr. Barkhuysen was proposed by Mr. T. McEwan.

A HOSPITAL PHARMACY IN NEW YORK

THE pharmaceutical department of an American hospital is always known as "the pharmacy." In the New York hospital the writer visited there was no doubt as to the nature of the department. Etched on the door was a large "℞" sign, which the American pharmacist frequently uses to denote his calling. Inside the door were two large illuminated and brightly-coloured carboys ("bottles" as they are called in the United States), symbolising the pride of the pharmacist in the insignia of his profession.

The hospital itself occupies fourteen floors and two basements and accommodates about 300 patients. There are no wards as we know them and the nursing staff is allocated to a "floor." Almost all rooms are single ones, for which a charge of from $10 to $35 a day is made. Most patients employ their own private nurses, who work an eight-hour shift. Should the patient be seriously ill, it becomes necessary for him to employ three nurses, at a cost of $30 per day. Doctor's fees, surgeon's fees, cost of *x*-rays, treatment and drugs, all expensive items, have to be paid for separately. A long illness can therefore be quite an expensive matter. Should a relative or friend of the patient wish to remain at the hospital, he is provided with a room or suite on the first floor, which is run as a luxury hotel. There is also a large restaurant on the ground floor which visitors may use. All the accommodation of the hospital is of a similarly high standard.

Conditions in the Pharmacy

The pharmacy is staffed by three pharmacists and a porter. Hours of duty are from 9.30 a.m. to 7 p.m., six days a week. During those hours there is a constant flow of prescriptions, with the main rush in the mornings. Doctors do not confine themselves to definite visiting hours, and it is a common occurrence to have a whole batch of new prescriptions late in the evening. The work is subdivided amongst the three pharmacists. The chief pharmacist is responsible for all the administrative side of the work; purchasing, records and consultant. It is usual to have a constant stream of representatives of pharmaceutical firms to interview every afternoon, and it is not unknown to have as many as six awaiting their turn. Card index files are kept of each purchase, with the cost price as well as the price to the patient. The cards are also used to indicate the whereabouts of each drug. Narcotic regulations are even mo strict than in Britain. Codeine is treate as a full narcotic; diamorphine is not pre cribed. All percentages of morphine ar cocaine are included. Stocks, purchas and sales must balance exactly. Finall the chief pharmacist must be available all times for consultation with medical me or the nursing staff. He is, of course, al responsible for the work of the other tw pharmacists, and assists them if that shoul be necessary.

Division of Labour

The second pharmacist deals with abou 70 per cent. of the prescriptions, i.e., tho which do not need extemporaneous con pounding. The average number of prescri tions dealt with daily is 200 but, by caref planning, each is dealt with very speedil Every prescription is dispensed individuall for each patient, and few "stock" pr parations are kept. At the end of the da prescription forms are priced, sorted an filed, and a duplicate, priced copy is ser to the accounting office. The pharmaci works on a long bench, above and belo which are drawers and shelves containin the proprietary preparations that compris the majority of prescriptions. Close at han are the bottles and boxes needed as cor tainers. Since all labels are typed, th machine is adapted to hold small label and is fitted with special type so that th ounce and dram signs can be printed fo each customer.

The third pharmacist deals with all pres criptions that have to be prepared extem poraneously: Penicillin and streptomyci injections, capsules, triturate tablets, pow ders and suppositories. The ordinary "mix ture," so popular in Britain, is entirel absent, probably because American patient prefer a more palatable way of takin medicine. As in other hospital pharma cies in New York, little precaution is take when preparing solutions of antibiotics. N screens are used, and no attempt is mad to obtain a sterile atmosphere, though th pharmacy itself is air-conditioned and kep scrupulously clean. Syringes, needles, etc. are boiled for half an hour and then pre served in rectified spirit for weeks withou resterilising, though constantly in use Bottles and caps are also boiled and stored in spirit until required. Normal saline solution and distilled water, used as solvents, are obtained from "vacoliters" or from ampoules, and used immediately.

Procaine penicillin has to a great extent laced ordinary penicillin, and the oily aqueous forms appear to be equally pular. Penicillin cream does not appear be prescribed. Streptomycin is packed vials containing 1 gm., in the form of phate, calcium chloride complex, or di-ro variety. The 1 gm. is usually dis-ved in 10 mils of distilled water and m. given daily. A supply of the more al strengths of penicillin and streptomy- injections is prepared during the eter periods and stored in one of two ge refrigerators, one in the pharmacy lf and another in an adjacent store-m where the main stock of antibiotics kept.

The planning and equipment of the armacy are in keeping with the rest of hospital, although not over-elaborate. ms of particular interest include a rub-h bin built into the wall and completely losed except for a lightly-hinged flap. A small lift or "dumb waiter," electrically-operated, by means of which goods from the pharmacy can be directed to any floor of the hospital. The dumb waiter is also used by the nursing staff to send prescriptions to the pharmacy. In this way only narcotics and antibiotics have to be collected by hand. Box files for prescription forms, which are of a uniform size (4 in. x 3 in.), make turning up a prescription a matter of seconds. Measures are graduated in both ounces and mils and have lips both sides. A pad of parchment paper resembling an artist's drawing block is used for mixing ointments and the top sheet torn off after use. Clean white coats are supplied daily by the hospital laundry, as well as a limitless number of white towels and disposable tissues. Since the cost of transporting containers back to the manufacturers is greater than their value, they are not charged, and after use are simply thrown away.—*E. G. M.*

NEW BOOKS

Iran.—N. S. Roberts, O.B.E. Pp. 50. **United States of America.**—Sir John gowan, K.B.E., C.M.G., and others. Pp. 7. 3s. 6d. Both 9½ in. x 6 in. Continuing series of economic and commercial sur-'s published for the Board of Trade port Promotion Department by H. M. tionery Office, the work on Iran is by the mmercial Counsellor to the British Em-sy at Teheran. The author states that re is a good demand for chemicals, phar-ceutical products and photographic mat-als of British manufacture: in 1947 ited Kingdom exports of chemicals, gs, dyes and colours to Iran totalled ,093,331. He gives a warning that kers of proprietary medicines, etc., should ister their trade marks in Teheran, accordance with Iranian law, to prevent itations of their products from being d under the same proprietary names. A posed seven-year plan for the economic velopment of Iran provides for the build-g of a sulphuric acid plant with an annual tput of 45,000 tons, a plant to produce lium carbonate and bicarbonate to an nual output of 14,000 tons, and ammonia d ammonia fertiliser factories. The sur-y on the United States has been prepared members of the staff of the British em-ssy in Washington under the general pervision of Sir John Magowan (Commer-l Minister). It covers a wide field and ould be of interest to the general reader well as persons engaged in the exporting trades. Emphasis is laid on the rapid development of the antibiotics industry; new antibiotic compounds, such as subtilin, discovered by culturing micro-organisms on asparagus-canning wastes at one of the Department of Agriculture's regional laboratories, are being developed on a commercial scale. Expenditure on research in the medical and allied sciences in the U.S.A. during recent years has totalled more than $110 millions. Industry spends not less than $50 millions annually on developing new drugs, chemicals, food, and medical and surgical supplies, while private and voluntary sources provide about $25 millions for research.

Finance of Oversea Trade. — W. W. Syrett, F.R.Econ.S., F.Inst.B., M.I.Ex. 8¾ in. x 5¾ in. Pp. 205. 15s. Sir Isaac Pitman & Sons, Ltd., Parker Street, London, W.C.2. A second edition of "Practice and Finance of Foreign Trade," under a new title, gives a concise and clear account of the financial mechanism of export and import trading. The functions of merchants, distributors, agents and others engaged in foreign trade are described, prior to sections on the sale of goods, and the use of various documents. Other chapters deal with tender and payment, the provision of finance for exporters and importers, credit and exchange risks, controls, etc. The book should prove of value to all import and export managers and also to students of commerce.

GUM MASTIC INDUSTRY IN CHIOS

A REPORT (Bulletin of the Imperial Institute 1948, XVLI, No. 2-4) on an investigation by D. F. D. Davidson (Assistant Conservator of Forests, Cyprus) of the gum mastic industry of the Greek island of Chios during late 1947 was published recently. The industry is peculiar to the south-eastern part of Chios and the gum is obtained by tapping the trunk and branches of *Pistacia lentiscus* var. *Chia* (*Anacardiaceæ*), a cultivated evergreen diœceous shrub. The tree usually grows to a height of two or three metres but may attain a height of five metres. Slow of growth, it usually takes fifty to sixty years to attain its full development. Growing naturally the tree has a bush-like appearance, but for mastic production one or two shoots only are allowed to develop standards. The resulting mature plant consists of one or two thick contorted stems surmounted by an umbrella-shaped crown. Only the male tree is cultivated for mastic; the female plant, which is said to produce an inferior gum, is rarely encountered on the island. The author describes a number of local varieties of the plant, viz.—Mavroskinos (or Langadhiotis); Votomos; Vingliotis (Marouliotis or Kallimasiotis); Krementinos; and Lavanos. The two last varieties are seldom encountered.

Propagation of the Plant

The mastic plant is propagated by cuttings, which are planted at intervals of three to four metres in lines four to five metres apart. When planted on sloping hillsides the plant is supported by bench terraces in a similar manner to that of almond or olive cultivation. Regular twice-yearly cultivation of the soil round the plants is important, and systematic pruning is undertaken every five years. It requires a fairly rich soil for good yields of gum, and can be grown satisfactorily at altitudes up to 500 metres above sea level. The average rainfall in the mastic growing district is said to be 75 cm. The geological peculiarities of the soil of the south-eastern part of the island are said to produce the true mastic properties of the gum. The plant requires six years of growth before it comes into production.

Tapping and collection of gum are limited by law to the period July 15 to October 15. "Tables" are prepared by clearing the earth round the trees usi an implement similar to a mason's trow and sprinkling round a finely-sieved wh soil, plentiful in the locality, which is th beaten. The tapping is effected by a sm wooden-handled iron tool (the "kenditiri A number of shallow wounds in the ba

Using the "kenditiri." The blazes are small a shallow, horizontal or diagonal.

of the plant are made which penetrate a far as the cambium. These incisions a usually in a direction diagonal to th vertical axis, and their number depends o the age and size of the tree. From mid-Jul onwards, from five to twenty blazes a given to a tree twice a week for abou five to six weeks. The mastic oozes ou and either falls on to the "table" or form a hanging tear. The gum sets in abou fifteen days. A small spatulate iron too with a wooden handle (the "timitiri"), operated by the first finger of the hand, i used for removing the gum from th ground and from the trunk of the tree After a short interval a second tappin period proceeds for another five to si

ks. The yield of trees of six years' wth is light (5 drams per tree) increas- gradually to a maximum of 100-150 ms [1 oke=400 drams=2.832 lb (avoir- ois)] per annum at the age of fifty ixty years. The gum is separated into grades as to quality and size of the s.

n November, the mastic is cleaned and ed, and washed in clean salt water. It

n exuding from small diagonal blazes at the tapping of a seven-year-old mastic plant (dia- er: about 3½ cm.).

then spread out to dry on cotton sheets. final washing in cold soapy water im- rts lustre to the gum. After this it is aded into four categories:—Pitta (or tari), flat, round plates of mastic, 3-7 . in area; Hondri, tears of various sizes; lo, smallest tears and pieces; low-grade st and imperfectly-set gum.

erage Yield

Average annual yield is estimated to be out 250,000 okes, of which at present t less than 80 per cent. can be exported prices around 25s. per oke. The author states he is not in a position to comment on the popular Greek belief that the mastic shrub will not yield satisfactory gum outside certain localities of Chios, but he cannot recommend the establishment of a similar industry in Cyprus.

PETROLEUM CHEMICALS

Speaking on "Petroleum as a Source of Organic Chemicals," at the annual meeting of the Society of Chemical Industry recently (see also *C. & D.*, July 23 p. 122), Mr. J. L. Edgar, B.Sc., Ph.D., F.R.I.C. (Shell Manufacturing Co., Ltd.) said that in recent years a vast chemical industry had grown up, based on the utilisation of waste products from petroleum. The base feedstocks for this new industry were the lower hydrocarbons produced during the cracking of heavy petroleum fractions for the production of petrol. The most important raw materials were the lower olefines, ethylene, propylene and the butylenes. Natural gas was used to an increasing extent for the manufacture of chemicals, and the supplies of olefines were augmented by the high temperature pyrolysis of the saturated hydrocarbons. Plants which used natural gas as a feedstock employed an oxidation process for the conversion. The reaction products included formaldehyde, acetic acid, acetone, methanol, ethanol, the propanols and the butanols. The process had to be carried out under carefully controlled conditions, and the separation of the products was obviously most difficult. It was much easier to use as feedstocks pure olefines, or olefine steams which were contaminated only by the saturated hydrocarbon with the same number of carbon atoms. By extracting the olefines with sulphuric acid, alcohols, including ethyl, isopropyl, secondary and tertiary butyl, could be obtained. The corresponding ketones could be produced by catalytic dehydrogenation of the alcohols, and higher ketones by condensation of the lower ones, and from them a variety of products by chemical transformation. The aldehydes and acids could be produced by oxidation of the alcohols. The olefines could be oxidised, giving ethylene oxide, propylene oxide and (by hydrolysis) the corresponding glycols. A new field had been opened up by the development of a process for the substitutive chlorination of propylene for the production of allyl chloride, from which were obtained allyl alcohol, diallyl ether, acrolein and diallyl phthalate.

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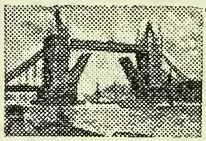

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CLII JULY 30, 1949 No. 3623

Conservatives' Health Policy

HOUGH the principle of a National th Service was agreed by the war- Coalition Government, its implemen- n fell to the Labour Government ned in 1945. As is now well known, nly did Mr. Aneurin Bevan, as Min- of Health, press forward with the ne on a high-priority basis, but he duced certain modifications which , in effect, departures from the nal proposals. How far they were ges of political principle and how far ted by that compromise which is in- ble in interpreting theory into prac- are questions outside our scope.

e point is that the electorate may not ys be "in the pink," and the Con- tive Party, in a recently issued state- of policy ("The Right Road for in") has given notice that it will, urned to power, effect certain changes e Service. From a pharmaceutical of view undoubtedly the most far- ing of the proposed changes is sum- sed in the following paragraph:—

"The scheme is intended to be com- ehensive, and any part of it should be ailable to any member of the public. e shall, therefore, allow private tients to obtain free of charge drugs escribed by the doctor on a parity th people in the State scheme."

though the increased cost to the try of carrying this into effect is not at a very high figure (a sum of),000 was unofficially suggested by a Party spokesman at a Press conference at which the policy was launched), the proposal would certainly narrow still further the range of over-the-counter sales at the pharmacy, though that might be offset by some increase in the volume of dispensing (assuming that there are still a few medical practitioners whose service to "private" patients includes the dispensing of medicines). On balance, pharmacists would be more, and doctors less, dependent on the State than at present, and the inducement of the public to use the Service would be to some extent reduced.

Apparently, no very considerable reduction in the total cost of the Service is envisaged. Economies are promised, and "we shall . . . see that the large sums of money spent on these services yield their full value." A more detailed statement of policy must be awaited before it is possible to say whether the pharmaceutical services are considered to be "yielding their full value."

One other point is worth noting for the indirect effect it may have upon the practice of pharmacy. A Conservative Government would restore to the doctor his full freedom to practise anywhere (at present he is subject to the "negative" restriction that in an over-doctored area no new practitioner is allowed to set up.

Exports in June

THE aggregate value of British exports of all classes of goods in June was £143.1 millions, a decrease of £8.3 millions compared with May, but £5.7 millions more than in April. The daily rate of exports was 2½ per cent. higher than in May and 4 per cent. above April—a higher rate than in any month except January 1949. Allowing for the change in prices since 1938, the total volume of exports in June is provisionally estimated at 145 per cent. of the 1938 average, compared with 153 per cent. in May and 140 per cent. in April. Imports were a record at £201.7 millions, exceeding May, the previous highest, by £6.9 millions, and April by £14.2 millions and were below the average of recent months, while the adverse trade balance was £54.2 millions, the highest deficit since September 1947.

Exports of chemicals, drugs, etc., in June produced £6.95 millions, against £8.09 millions in the previous month, and £6.89 millions in April. Manufactured drugs, medicines and medicinal preparations shipped to overseas markets were valued at £1.68 millions, compared with a peak of £1.79 millions in May and £1.58 millions in April. The value of exports of proprietary medicines fell from £542,873 to £437,226. The total for April, which had the same number of working days as June, was £452,565. Exports of aspirin at £42,066 were £2,175 more than the May value. Quinine shipments rose in value from £32,726 to £34,405, and insulin from £33,283 to £35,451. Demand for penicillin is still on the increase and exports in June had a total value of £241,916, compared with £209,415 in the previous month. Ointments and liniments exports, however, were less with a value of £82,071, against £88,897 in May, while sundry medicinal products were valued at £803,597, compared with £843,903 in the previous month.

The improvement in exports of perfumery and toilet preparations (excluding spirits, essential oils and soap) in May was not sustained, with a June value of £339,970, compared with £426,479 in the previous month and £385,477 in April. The value of dental preparations, etc., consigned to overseas markets declined from £80,740 to £59,939 (April, £54,759). Cosmetics, etc., dropped from £173,428 to £105,958 (April, £172,524). Exports of essential oils were valued at £42,596, compared with £48,177 in May and £40,701 in April. The value of toilet soap exported was £162,440, against £246,991 in May and £220,783 in April.

Tables showing import and export totals for the six months trading to June 30, together with totals for the corresponding period of 1948, are given separately (see p. 155).

Bulgarian Otto of Rose

An article in the "Economist," of July 16, provides information on present-day Bulgaria, a country whose natural resources "are the poorest of any country in eastern Europe," and where agriculture accounts for 70 per cent. of the econo To the toilet and perfumery trades, I garia calls to mind otto of rose, for in war years she produced the finest oil. 1937, Bulgarian output was in the re of 2,850 kilos, and in 1938, 2,200 kilos. the latter year it was reported that Agricultural Bank of Bulgaria held a ca over from previous years of several th sand kilos. Exports rose from 919 kilo 1932 to over 2,000 kilos in 1937. Fra was the principal buyer (1947, 973 ki followed by the United Kingdom (kilos), Germany (278 kilos), the Un States (267 kilos) and Switzerland (1

The U.S.S.R. is said to have bou nearly all the Bulgarian rose oil in 1 and is alleged to have re-exported i the U.S.A. at an enhanced value. own reports show that Russia has b offering what is claimed to be Bulga otto of rose, but it would appear to not up to the standard of the pro formerly obtained from Bulgaria. F its aroma, trade circles are of the opi that it contains other rose oils, poss Turkish. It is probable, however, that distilled from roses grown in Soviet G gia has been mixed with the Bulga product, using the technique introdu from Bulgarian rose gardens of Kaza (see *C. & D.*, April 9, p. 479). Furt when the war ended, the United St is understood to have taken several th sand kilos of Bulgarian otto of rose, the American market for this product been overloaded for some time. I hardly likely, therefore, that the Un States would have purchased large qua ties from Russia in 1948.

Exports of genuine Bulgarian otto i the hands of a Bulgarian State age Bulgarska Rosa, Sofia, and samples re ing this country show that the qualit good, although the price has greatly creased compared with pre-war values. sistence on an irrevocable letter of cr opened in Sofia has, however, dete British importers from bringing it in, spite the provision for an agreement the Bulgarian agency covering the porter against loss in the event of parcel being inferior to sample.

FORGOTTEN CORNERS OF THE WORLD

by H. Catleen, D.Sc. (Econ.), M.I.Ex.

ECENT months have seen many manufacturers encountering rising difficulties in a number of overseas ets. Reasons for this situation in-:—

Increased competition from other ex-ng countries.

Flooded markets.

Import licence difficulties resulting currency shortages abroad.

Higher customs tariffs imposed by countries to protect their home indus-—a policy adopted in practically all ig markets.

ese difficulties obstruct the steady ex-development of many British manu-rers who have concentrated, during the hree years, on the important and well-n territories to the exclusion of others. soon as the war ended, many of the -big manufacturers decided to export ding to a systematic plan. Others content to try their chances through t houses, and in what is called "hap-d" or "coincidental" export. The natic exporters, as a first step, ex-d the possibilities of "door-step" ex- — that is, to European and some terranean territories. From there they d their attention to the United States he Dominions, South Africa, Canada, and Pakistan, Australia and New nd—generally in that order. Later, erhaps simultaneously, a few well-n but smaller markets were worked gh, such as the British West Indies, their many opportunities, British pos-ns in Africa, etc. Statistics prove almost all of the markets just men-l have so far yielded satisfactory ex-returns for many British manufac- but in few territories can the turn-figures achieved be stepped up any er.

Markets Essential

the British national economy needs higher export figures, for reasons n to all. It is highly desirable and necessary, therefore, for manufac- to turn to less explored territories. realised how many smaller markets, inside the Commonwealth, may not ave been touched? Is it possible to ate approximately the possibilities for products in such "unknown" terri-? A systematic combing of all acces-sible territories has become a prime necessity for every manufacturer, after connections have been established in the well-known markets. An example will illustrate the position. The British Industries Fair, 1948, was visited by buyers from —amongst many others—the following less well-known territories: Antigua, Aruba, the Azores, the Bahrein Islands, Bermuda, British Honduras, Cape Verde Islands, Cayman Islands, Dominica, Ethiopia, the Fiji Islands, Gambia, Grenada, Mauritius, Porto Rico, Réunion, St. Vincent, Tobago, Turk's Islands, the Virgin Islands. Visitors from those territories spent a lot of time and money, and travelled far, in order to buy British. Their visits serve as proof that many a manufacturer can find untapped markets even in the above short list. But there are other, still less known, markets, such as the British Possessions in the Archipelago of the South Pacific, the Samoa and Cook Islands, the Andaman or Nicobar Islands in the Indian Ocean, to mention a few out of more than a hundred such smaller outlets.

Advantages of the Smaller Territories

Not many will dispute that there are obvious advantages in exporting to places off the beaten track. They include:—

(1) Less competition.

(2) Possible importers and import agents are fewer and each one's reputation is therefore better known.

(3) Orders are smaller but there is less danger of a suddenly flooded market.

(4) A manufacturer may offer products previously unknown, thus gaining the obvious advantages of being first in the field.

The author has seen substantial and lasting business resulting from devoting a little attention to those smaller markets.

Foreign Exchange Restrictions. — A third edition of "British Exports and Exchange Restrictions Abroad" was published recently by the Swiss Bank Corporation. The booklet sets out concisely the regulations existing in over 150 countries and territories in various parts of the world in so far as they affect exports from the United Kingdom. It is issued free on application to the Bank's Statistical Department, 99 Gresham Street, London, E.C.2.

"NEW" PLANT BY WELDING

THE chemical industry, by reason of the wide range of mechanical equipment it uses, suffers keenly by any handicap such as the present lack of certain classes of mechanical equipment. An alternative is to modify existing machines. Welding is one means to that end.

Improved Methods

Much of the success achieved recently in this connection is due to the introduction of an improved method restricting heat flow from the localised area in which the actual work of welding is being carried out. Not long ago certain types of work were impracticable because of the wide difference in expansion and contraction between one metal and another. Temperatures of 6,000°-8,000° F. are essential to successful welding of this kind, and it might not seem that much can be done to prevent local expansion, with the resultant distortion and even cracks. So efficient are the new equipment used and the technique applied by the operator, however, that on momentarily ceasing to weld it is possible to touch close to the weld without discomfort.

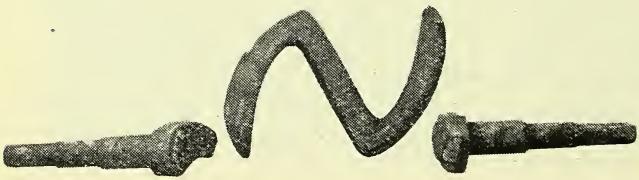
Sprayed metal is sometimes used in the lining of containers subjected to corrosive influences, but for heavy duty, where considerable thickness of material is required, the use of welded strips of stainless steel, Monel metal or other material is favoured. A wire or powder of the metal it is required to spray is passed through an oxy-acetylene flame. The molten particles are ejected in a stream of compressed air, and a tenacious coating is imparted to any matt surface. The process has taken the place of some forms of galvanising, whilst the spraying of stainless steel or other special alloys may provide a means of prolonging the life of plant and consequently reducing the cost of upkeep. An aspect of this process that should not be overlooked is the porosity of the sprayed metal, though this does not prevent a high polish from being imparted. Porosity is, hov often an advantage, as from the rete of lubricating oil in the pores.

A fruitful application of welding the reconditioning of boilers require heating, processing or for power pur If the trouble is deep-seated it is po to restore the original thickness by a ing new material. With more severe ness an area of plate may be remov flame cutting and a new section fitted with butt joints, so that whe job is finished there remains no tra repair either inside or out. Boiler tr sometimes arises at points where ac bility is poor. Even this is no dete for it is practical to cut away a suff portion in order to deal with the tr and then, when it is cured, seal every up again. The methods are so satisfa that they have the full approval of ance companies who undertake cove boilers and other machinery, pro that the work is done by firms with experience of this kind of problem.

Work on Site

In most instances the metal parts needing attention are sent to the shops of the welding engineers, but when bulk or weight renders transport uneconomical, then the work is generally handled on the site. Operators using self-con-

The large mixing blade (below, left) was broken in two places. It was thus not an easy job to re-align, as it had to be perfectly true. Nevertheless the parts were welded successfully and the shaft lined up (as shown at the right) in the welding works of Barimar, Ltd.



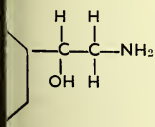
equipment are available to go ver their services may be required. concerns operating road vehicles le aid can be given by welding ists. A broken crankshaft can be re-, a full measure of strength restored lignment assured to within one-ndth part of an inch, even when the has been distorted as a result of the Even gear wheels that appear to yond all possibility of reclamation can be made completely dependable again, despite even the loss of the original teeth. Cylinder heads and blocks smashed by accident or frost fracture can be made sound quickly, inexpensively and without trace of repair. One of the factors in absolute reliability is the degree of inspection at each stage. Inspection is done largely by radiography, which enables the weld to be scanned in depth, preventing a flaw, however small, from escaping detection.

MEDICAL ABSTRACTS

thane in Leucæmia. — Wilson and ("Journal of the Kansas Medical ," 1948.49.97) report best results urethane therapy in patients with myelogenous leucæmia. The treat-produces about the same clinical ological results as standard roentgen y. The therapeutic response of lymphatic leucæmia is less satisfac-The clinical course of the acute leu- is not affected by urethane.

essine in Amœbiasis.—Lavier and ues ("Revue du Paludisime," Janu- 1) conclude, on the results of thirty-es studied, that as an anti-amœbic conessine compares favourably with e. Conessine has advantages in cases etine-resistance, and its use is not to intestinal amœbiasis. While has to be varied with the tolerance organism, a daily dose of 0.6 gm. a total of 5 gm.) is suggested for patients.

r-Adrenaline in Hypotension.— observations on the pressor effect of 1-*nor*-adrenaline administered by continuous intravenous infusion, Goldenburg and colleagues ("Journal of the American Medical Associa- July 2, p. 776) conclude that the ice is inactivated sufficiently to be a useful drug in certain f acute hypotension. Experiments logs indicate that it may also in- the coronary circulation.



r-adrenaline

pathectomy with Phenol.—The phenol to produce a lasting sympa- interruption by destruction of n cells is described by Haxton sh Medical Journal," June 11, p. 10-12 mils of a 6 or 10 per cent. aqueous solution was administered by paravertebral injection with favourable results in 200 cases exhibiting a variety of circulatory disorders of the lower limbs (including arteriosclerosis, erythrocyanosis, hyperhidrosis and chronic chilblains). There were few complications and the author comments that "the sum total of suffering saved by this simple treatment has been very large," but warns that the method should be used only by those with much experience of paravertebral injection of the sympathetic chain.

A New Parasympathomimetic Drug.—Stein and Keyer ("Journal of the American Medical Association," June 11, p. 522) find that the effect of Urecholine (urethane of beta methylcholine chloride, a new potent parasympathomimetic drug) is similar to that of carbamylcholine chloride (carbachol) although it is probably less toxic because of a weaker nicotine-like action. It causes an increase in gastric and intestinal motility and is of value in the treatment of adynamic ileus. Urecholine causes contraction of the normally and defectively innervated bladder and is of considerable value in the treatment of post-operative urinary retention. A dose of 5 mgm. subcutaneously produced a rapid but transitory increase in the tone and motility of the stomach, intestine and urinary bladder. 10 mgm. orally caused a gradual increase of gastric and intestinal motility, while 30 mgm. orally caused a decided increase in the motility of those organs and an increase in the tone of the urinary bladder. Sublingual administration of 10 to 30 mgm. might produce mild contractions of the stomach or intestine. Intravenous injection was not attempted. The drug is contra-indicated in peritonitis, intestinal obstruction and asthma, and it should not be administered during pregnancy until further tests have been made.

PECTATE FROM SISAL WASTE

NEW supplies of sodium pectate (a colloid with many possible pharmaceutical applications) became available in Britain recently with the commencement of a commercial extraction process by A. S. P. Chemical Co., Ltd., Gerrards Cross, Bucks, using sisal waste (a dollar-free product) as source. The process is the first commercial result of a chemical examination of the waste initiated in 1938 by Sir John Ramsden Bart., and Major Conrad Walsh, sisal planters, and founders of the company.

At present the manufacturing and research laboratories of the company are situated in part of Sir John Ramsden's country house, Bulstrode, Gerrards Cross, Bucks, but soon the company is to open factories in Kenya and Tanganyika so that the process can be conducted where the sisal plant is cultivated. Certain transport costs will thereby be eliminated.

The sisal plant, *Agave sisalana,* is indigenous to Central America, but its cultivation has been established in other parts of the world, and Kenya and Tanganyika have become the most important producing regions outside Mexico. The plant forms a hard central bole which bears a large number of broad succulent leaves, five to six feet long and tipped with spines. These leaves are cut when the plant is about four years old. Towards the end of its useful life, which varies from three to five years, the plant sends up a pole some twenty feet high, which bears bulbils (from which the plant may be propagated) and large white flowers. After poling the plant dies.

Separation of the Flesh

Sisal fibre and tow are separated from the leaf by a decorticator. The solid matter of the pulp and of the leaf-covering (i.e., the "flesh") is about equal in weight to that of the tow and fibre (3 per cent. of the leaf). A total of some 135,000 tons of fibre and tow, and of some 300,000 tons of dried flesh waste are produced annually. It was partly the diffiiculty of disposing of the waste (and partly the fact that natives attributed healing properties to it, paddling in it, for example, to help "cure" cut feet) that suggested to Sir John the possible chemical exploitation of the flesh.

Workers at the A. S. P. Chemical Co., Ltd., commenced examining the dried flesh in London in 1939, but after their laboratories had been bombed twice in the early days of the war, the work was t ferred to Bulstrode, where the Mi of Supply allowed the company to con its researches despite claims for the mises by the Forces.

Extraction Process

Production and research are directe Dr. W. B. Hawes at the laboratories, w a hot extraction process at present i ing used. The dried sisal flesh, w arrives from Africa in bales, is first from the tow by passing through a temporised de-towing machine, the re ing beaters of which collect the Then after "floating" the dried ma on water to remove soil and other d the flesh is transferred to vats for ho kaline extraction. Part of the liqu decanted and the solids filter-pressed. filtrate contains the crude sodium pe while the expressed organic material ("board") has uses in soil stabilising, filler for plastics and as a source of w

The hot filtrate is cooled quickly heat exchanger and then transferred t tling vats. From the clarified solutio pectate is salted out in 500 gall. vats, ing a viscous jelly-like product. Rem the entrained water has defied the co tional methods of chemical engineering a process in which the jelly is run several hundred wide-mouthed bags, w are then closed and allowed to "ha for twenty-four hours is being used. this treatment about 5 per cent. of water has drained away and the prod sufficiently stiff to allow the bags t piled in stacks. After twenty-four h "stacked" the water content of the tate has been reduced to 90 per cent. a subsequent pressing process further duces it to 75 per cent. At that stage product is a stiff paste resembling ba yeast in appearance. In that form, w is soluble, it is sold to food manufactu For other purposes, the product is gr lated by passing through a large sa machine, dried in ovens at 70°C., gr in a mill, and passed through a 100 vibrating sieve to give a fine, pale powder, containing moisture about per cent., sodium pectate about 60 cent., with salt, calcium carbonate, Pectic acid for the production of the of heavy metals is made by a si method. The drying and gri processes slightly denature the pe Sodium pectate (the sodium salt

alacturonic acid) disperses easily in water, with agitation, concentrations 1 per cent. gelling on cooling. The heat reversible. Agents such as help dispersion. Gels are also formed lding solutions of metallic salts (e.g., m chloride) or acid, to sodium pec- solutions, which cause the precipita- of insoluble gelatinous metallic pec- or pectic acid. The calcium or gels are stronger than the sodium e gel for an equivalent concentra- and they also possess the property of eing heat reversible.

rated Pectate Films

aporation of thin layers of pectate ons produces non-sticky films, those tallic salts being insoluble, and that e sodium salt, soluble. Copper pec- has uses as an insecticide and fungi- while other heavy metal pectates (e.g., pectate) have been used to coun- trace-element deficiencies in pas- Nickel pectate has been used in the ent of cattle dysentery.

tes in Pharmacy

tates may be used in pharmacy and tics for example in stabilising emul- and making cream bases, hair fixa- etc. (where the compounds may re- tragacanth, sterculia, acacia, starch, and in clarifying turbid liquors. The nce also shows promise of use in iology.

VETERINARY ABSTRACTS

Polyarthritis from Contaminated Sera.—Outbreaks of polyarthritis in lambs in North Wales, traceable to lamb dysentery and pulpy kidney sera contaminated with *Erysipelothrix rhusiopathiæ,* are described by Edwards ("Veterinary Record," February 26, p. 95). Evidence showed that the product involved was of one manufacturer who, "despite every effort," could find no explanation of the contamination. The author suggests that the small cell body of the infecting organism, and particularly the smaller pleomorphic forms, may have passed the Seitz filter-pad in the sterilising process.

Laburnum Poisoning in Cattle.—Allen and colleagues ("Veterinary Record," 1948.II.586) add to the "very few records" of laburnum poisoning in cattle. Three heifers in a herd in Wales were affected. One died, and a post-mortem showed that some 40 gm. of laburnum twigs had been eaten. Symptoms of the poisoning were salivation, grunting, hypersensitivity, incoordination, and a "peculiar spasmodic knuckling over of the fetlock joints of the fore and hind limbs." The two heifers slowly returned to health, but even after seven months one occasionally knuckled over in the hind fetlocks. It was established that the heifers had eaten twigs from laburnum branches which had been thrown over a hedge into the grazing field.

SONALITIES OF SCIENCE ON POSTAGE STAMPS—1

4fr. dark blue of France was issued in in honour of rench scientist L. Lavoisier -94). Lavoisier accurately ned all sub- es, both solid gas, concerned mbustion, and d the word n for the gas entered into nation with elements in the process. sier was sent to the guillotine during French Revolution, following the s' announcement that the Republic no need of learned men." Emile- he von Behring, born at Hansdorf, Germany, and the subject of the 25 pfennig and 10 pfennig blue German stamp (centre), was a physician and bacteriologist of renown. His work helped to lay the foundation for the treatment of disease by serums.

RECENT RESEARCH

Protection Against Iodide Poisoning.— Buckell ("Nature," February 26, p. 330) in work at the Department for Research in Industrial Medicine, Medical Research Council, found that BAL (50 mgm. per kilo of body weight) administered to mice before exposure to methyl iodide, protected the animals against concentrations of the iodide which otherwise would have proved fatal. Administered immediately after exposure, BAL only slightly prolonged the time of survival from the effects of the iodide.

Synthesis of *p*-Aminosalicylic Acid.— Wenis and Gardner ("Journal of the American Pharmaceutical Association," Scientific Edition, January, p. 9) describe a method of synthesising *p*-aminosalicylic acid, starting with 4-nitro-2-aminotoluene. That compound was converted to 4-nitro-2-chlorotoluene, which was then oxidised to 4-nitro-2-chlorobenzoic acid, and the product hydrolysed to 4-nitro-salicylic acid. Reduction gave *p*-aminosalicylic acid. The synthesis acts as a proof of the structure of the compound.

Virus Multiplication Stage ? — Chu and colleagues ("Lancet," April 9, p. 602) have observed elongated filamentous structures in fluids of eggs infected with recently isolated influenza virus, and consider from the evidence available that the structures may represent a stage in virus multiplication. Confirmation of the suggestion would "revolutionise our conception" of the way some viruses can multiply, state the authors. The strains of viruses used in the observations were obtained during an epidemic in Europe during the winter of 1948-49.

Phosphate Nomenclature. — Partridge ("Chemical and Engineering News," January 24, p. 214), reviews the nomenclature of crystalline sodium phosphates and suggests a scheme for the naming of the metaphosphates as set out column by column in the following table:—

Common name	*Common formula*	*Suggested name*	*Suggested formula*
Sodium hexametaphosphate (Graham's salt)	$(NaPO_3)_6$	Sodium (1:1) phosphate glass	$Na_2O(1:1)P_2O_5$ glass
Sodium trimetaphosphate	$(NaPO_3)_3$	Sodium metaphosphate I	$NaPO_3$ I
		Sodium metaphosphate I′	$NaPO_3$ I′
		Sodium metaphosphate I″	$NaPO_3$ I″
(Maddrell's salt)	$NaPO_3$	Sodium metaphosphate II	$NaPO_3$ II
		Sodium metaphosphate III	$NaPO_3$ III
(Kurrol's salt)	$NaPO_3$	Sodium metaphosphate IV	$NaPO_3$ IV

Dihydrostreptomycin Salts. — The paration of crystalline dihydrostreptor sulphate is reported by Solomons Regna ("Science," May 20, p. 515) a the crystalline sulphate and cryst hydrochloride by Wolf and others (a The physical properties and chemica alysis of the crystalline salts are reco Although the pharmacological propert the crystalline salts are described as in general similar to those of the h purified amorphous salts, crystallisatio moves certain impurities so that bat batch variation in pharmacological ponse from administration of the sa eliminated.

Crude Insecticide on Seedlings. hibition of germination has sometime lowed the application of crude be hexachloride to wheat seeds. Ho ("Nature," May 7, p. 731) finds tha effect is not due to the gamma is The causative agent is volatile, and be a breakdown product of benzene chloride. Preparations of the comp for use against wireworms should be in the gamma isomer, and should b plied at the minimum rate necessar control. Risks of inhibited germinatio likely to be increased by storage of the after treatment (particularly under c tions of poor ventilation), by exposu sunlight, and by deficient moisture or *p*H of the soil. Precautions should fore be taken against these factors.

Antioxidants for Paraffins.—Mor ("Industrial and Engineering Chemi July, p. 1442) examined thirty-four ph compounds and two xylene-formald condensation products to determine suitablility as antioxidants for pa wax. He found that alkyl substitution i reactive ortho and para positions halogen substitution in the para po improved the stabilising power of phenolic antioxidants, and that introd a second hydroxyl group into a substi phenol incr its antioxidan tivity. Bisph linked by m lene, sulphu thionyl showed activity in st ing paraffin and chemically lar materials.

CORRESPONDENCE

The Blackpool Conference

R,—May I, through the courtesy of columns, draw the attention of pharsts to the opportunity for a wonderful lay open to them in the visit of the sh Pharmaceutical Conference to kpool in September this year. I have privileged to attend local committee ings though I shall not be able to an active part during Conference , and already it is obvious that a tempting bill of fare is being provided Conference visitors. The week is going e a week packed with entertainment variety, with something for everybody, I can thoroughly recommend any macist who has not made plans for his mn holiday to attend the Conference year.

ackpool. G. M. BARKER.

Local Attack on Flies

R,—At Leatherhead, where our factory the manufacture of Bandbox hairty preparations is situated, this com-, Ashe Laboratories, Ltd., is coting with the local council in instig an all-out attack on flies and mosies. Leatherhead is a lovely town in heart of Surrey but, like every other in the country at this season, it suffers these disease-carrying pests. We are to ly to the Leatherhead council several reds of gallons of concentrated DDT which the council will distribute and throughout the town and locality in conceivable breeding-ground from e dumps to domestic dustbins. Such ncentrated attack is to us hitherto unn in this country, and it is hoped the campaign will save the community n annoyance and inconvenience. Intally it should assist us in ensuring our products are manufactured in conditions.

Yours faithfully,
ASHE LABORATORIES, LTD.
E. C. RUSSELL.

EPORT ON INSECTICIDES

NITED NATIONS report on the availty of insecticides for combating malaria gricultural areas, states that, in work in a and the U.S.A., DDT was found ave a residual effect lasting for two ree months against two to four weeks with benzene hexachloride (BHC). BHC, however, has usually a faster knock-down effect on flies and mosquitoes. The characteristic odour of BHC makes it undesirable for use in living quarters. 1 lb. technical DDT is found roughly equivalent to 2 lb. technical BHC (12 per cent. gamma isomer content).

Other malarial insecticides mentioned in the report are chlordane, a chlorinated hydrocarbon derived from petroleum products. Chlordane vapour is toxic to insects, and the compound can thus kill insects not actually resting on the surfaces treated. Toxaphene (chlorinated camphene), for which patents have been sought in a number of countries, has shown considerable promise in the control of grasshoppers, while Parathion (an organic thiophosphate developed in Germany) has proved useful in the control of many insects; limited quantities are being produced in the United States, but production could also be developed, the report states, in Britain and France.

FIFTY YEARS AGO

Une Pharmacienne

(*From the C. & D., July* 29, 1899)

THE lady-pharmacist has invaded Paris, at last, and the quiet and well-to-do suburb of Passy, familiar alike to English residents there and readers of "Peter Ibbetson," is happy in the possession of a pharmacy owned and managed by a member of the fair sex. She is the first, I believe, to take this venturesome step in *La Ville Lumière*. It is scarcely necessary to say that this enterprising young lady is not a Parisienne, or even of French nationality. I understand that she hails from the land of the Tzars, thus adding another link to the Franco-Russian alliance. Mlle. A. Fichtenholz took her diploma of "*Pharmacienne de première classe*" in 1897, and has acted as laboratory assistant to several professors at the Paris School of Pharmacy, including M. Guignard, professor of general botany. . . . On entering the shop a charming blonde young lady came forward to receive me, and after making a small purchase, I inquired if she were Mlle. Fichtenholz, and was surprised to receive an answer in the affirmative; for I had expected to see a tall, staid, spectacled lady going towards middle life, but I found a lightsome creature young in years and not of a grenadier's stature.

GUIDE TO NEW MEDICAMENTS

Information about new proprietary medicaments to be supplied principally on pr tions. Editorial recommendation is not implied. Reprints obtainable on appli

THROMBOPLASTIN (Evans)

MANUFACTURER: Evans Medical Supplies, Ltd., Speke, Liverpool, 19.

DESCRIPTION: A stable rabbit brain powder

USE: For the estimation of prothrombin time by Quick's method.

HOW SUPPLIED: Screw-capped bottles containing 5 gm.

NOTES: The preparation is tested clinically before issue.

NEO-HOMBREOL "M" (METHYLTESTOSTERONE,

MANUFACTURER: Organon Laboratories, Ltd., Brettenham House, 5 Lancaster London, W.C.2.

DESCRIPTION: Methyltestosterone, B.P., prepared in tablets each containing 25 mgm. by buccal absorption (sublabial or sublingual), and 50 mgm. by absorption (swallowing).

HOW SUPPLIED: In bottles containing 25, 100, 250 and 500 tablets.

PERCORTEN LINGUETS

MANUFACTURER: Ciba Laboratories, Ltd., Horsham, Sussex.

DESCRIPTION: Tablets for sublingual absorption containing 1 mgm. deoxycortone B.P.

DOSAGE: Dosage varies with the patient's individual requirements. Approximately times as much hormone is required when administered sublingually as con with the intramuscular injection of the oily solution.

HOW SUPPLIED: Bottles containing twenty-five, 100 and 500 tablets.

ELIXIR METHADON

MANUFACTURER: T. & H. Smith, Ltd., Blandfield Chemical Works, Edinburgh.

DESCRIPTION: A preparation for oral use containing in each fluid drachm 2.5 m Methadon (*dl*-2 dimethylamino 4:4 diphenylheptane-5-one hydrochloride).

INDICATIONS: Analgesia.

DOSAGE: 1 to 4 fl. dr. (i.e., 2.5 to 10 mgm. Methadon).

HOW SUPPLIED: Bottles containing four and sixteen fluid ounces.

NOTES: Methadon is contra-indicated in obstetrics. The elixir is subject to the r tions of the Dangerous Drugs Acts.

FUNGICIDAL OINTMENT and POWDER—Boot

MANUFACTURER: Boots Pure Drug Co., Ltd., Station Street, Nottingham.

DESCRIPTIONS AND FORMULAS: Ointment containing undecylenic acid, 5 per cent zinc undecylenate, 20 per cent., in a vanishing cream base. Dusting powde taining undecylenic acid, 2 per cent., and zinc undecylenate, 20 per cent., in of starch and kaolin.

INDICATIONS: Tinea pedis and other dermatophytoses.

USES: In therapy, apply the ointment to the affected areas once or twice daily, fol by dusting with the powder.

HOW SUPPLIED: *Ointment,* in tubes containing approximately 1 oz.; *powder,* in spr containers holding approximately 2½ oz.

HALF-YEAR'S TRADE

Statistics Compiled from the Trade and Navigation Accounts

early Total	*Imports*	*Exports (U.K. Goods)*	*Total Exports*
1949 ...	£1,119,741,014 ...	£891,794,109 ...	£922,629,032
1948 ...	£1,025,596,695 ...	£743,537,341 ...	£744,779,569
1938 ...	£459,754,467 ...	£235,377,660 ...	£266,139,983

Description	Imports January-June		Exports January-June	
	1949	1948	1949	1948
	£	£	£	£
cals, drugs, dyes, etc. (group otal)	13,456,734	15,519,551	44,540,905	40,094,955
nfectants, insecticides, weed llers, cattle dressings, etc. ...	—	—	1,502,445	2,042,256
cerin	—	—	—	29,492
ne	188,752	187,323	—	—
am of tartar	—	—	15,949	18,125
its (perfumed)	—	—	262,706	326,831
gs and medicines (manufac-ured) total	733,938	614,721	9,699,393	7,695,091
roprietary medicines	93,360	49,483	2,804,275	2,445,192
Quinine and quinine salts ...	—	27,739	243,814	180,273
Menthol	88,829	125,711	—	—
spirin	—	—	243,723	126,232
enicillin	—	—	1,179,250	1,049,104
nsulin and its salts	—	—	218,881	167,138
Ointments and liniments ...	—	—	436,304	288,254
, etc., raw or simply prepared	—	683,110	—	—
chona bark	132,313	56,463	—	—
cacuanha and other roots ...	152,816	166,165	—	—
ver oil	1,785	22,347	231,031	234,011
oil, refined	915,915	444,390	—	—
ial oils, natural	947,921	1,276,650	251,561	178,348
soap	—	—	1,051,279	491,134
nery and toilet preparations, ex-luding spirits, essential oils and oap (total)	47,983	32,213	2,215,815	1,593,024
ntal preparations, etc.	—	—	368,823	332,901
metics	—	—	882,409	491,501
requisites (excluding brushes)	—	15,892	67,913	76,685
oth and denture brushes ...	—	—	127,696	66,717
ving brushes	—	—	176,344	41,087
r and other toilet brushes ...	—	—		155,424
ras and cine apparatus	108,514	90,430	705,842	425,311
cal and surgical instruments, etc. cept optical)	45,014	38,993	306,602	309,904
ive plasters, etc.	—	—	334,529	310,882
druggists' wares (unspecified)...	—	—	457,431	246,942
ges	—	—	152,264	114,066
n wool and gauze tissue ...	—	—	274,551	169,969
ical glassware	—	—	280,257	308,365
ical machinery	364,319	54,770	1,709,001	763,030

-EXPORT totals for the half-year were: Chemicals, drugs, dyes, etc., £279,847 , £425,868); manufactured drugs and medicines, £88,425 (£216,695); drugs, r simply prepared, £137,422 (£244,630); essential oils, £86,852 (£87,810); gums, a and tragacanth, £145,269 (£160,570).

TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale ties of standard quality. Prices of crude drugs and essential oils vary as to brand or

28 Essex Street, W.C.2, July 27

THERE have been no special features during the past week in the markets for PHARMACEUTICAL and FINE CHEMICALS. Apart from an increase in ZINC OXIDE, prices are unchanged, although it is understood that in some directions they are under review, and an announcement is to be made shortly. Business in CRUDE DRUGS has been small. ERGOT is in good inquiry on the spot but there are no offers. The Portuguese ergot crop is said to have failed and shippers are asking high prices for old-crop material—up to 17s. 6d. per lb., c.i.f. IPECACUANHA is firmer on the spot at 24s. per lb. for f.a.q., and supplies are in few hands. Prices of Sumatra BENZOIN have increased; it has been increasingly difficult to get shipment offers of material from Singapore, as supplies are held up in Sumatra because of the absence of exchange facilities. New-crop CANADA BALSAM is now available on the spot at 12s. 6d. per lb. Lower prices are asked for PAPAIN on the spot. A good business has been done in Trinidad TONKA BEANS at 7s. 3d. per lb. which has cleared the market of this variety. In SPICES, all supplies of Zanzibar CLOVES have been cleared from the spot market; August-September shipment is offering at 1s. 2½d. per lb., c.i.f. Small supplies of CARDAMOMS have been offering on the spot, but there is still little inducement for importers to bring in this article owing to continuing high prices. Although markets for ESSENTIAL OILS, generally, are quiet and steady, in some directions supplies are difficult and firm conditions are reported. Forward prices for CITRONELLA have increased. Ceylon oil is quoted 4s. 2½d. per lb., c.i.f., for July-August shipment, while there are few offers of Java at prices from 9s. 6d., c.i.f., upwards. English-distilled CLOVE is sixpence per lb. dearer owing to rising costs of raw material. LEMONGRASS is in short supply on the spot and near shipment prices have increased to 8s. 5d. per lb., c.i.f. There are still a few cheap offers of EUCALYPTUS on the spot, but a standardised oil is 3s. 6d. per lb. A moderate spot business has been done in LAVANDIN at 6s. 9d. per lb. The advisory committee of the Essential Oils Control, in conjunction with the Ministry of Food, has decided that the levy (or fixed contribution) payable under provisions of the distribution scheme is suspended in respect of all allocations made on or after June 30, until further notice. A moderate business has been done in SYNTHETICS and ISOLATES. LINALOL and LINALYL ACETATE are easier.

U.S. Drug and Chemical R

New York, J

THE market for PHARMACEUTICA FINE CHEMICALS remains quiet tending easier. PENICILLIN prices f quantities have been reduced followi in the ordinary rates. SULPHONAMI meeting with little demand at curre levels. While the CRUDE DRUGS mar remains quiet at present, there are that purchasing for autumn use ma earlier than usual because of stocks. Arrivals of botanical drugs first quarter of 1949 were nearly cent. below the volume in the corr ing period of 1948. It appears th prices of many domestic botanical may decline as a result of com among primary producers and collec the case of other products, howev lers are refusing to entertain offers current rates. Belgian VALERIAN R ERGOT are firm; the former has b vanced three cents per lb. to 43 ce lb. on reports that stocks at the p centre are nearly exhausted, and th has been increased 25 cents per lb. t on reports of crop failure in P Trade circles are of the opinion tha ESSENTIAL OILS have now found the war level, with the market incline steady after a period of declining pr is expected that more buyers will enter the market as consumers' sto known to be low. Meanwhile, CITR is difficult to obtain with few offer Java. Old-crop PEPPERMINT is repo also difficult to find as a result of s tial shipments to Europe.

Pharmaceutical Chemica

ACETANILIDE. — Quotations for lots in kegs are at 2s. 1d. per lb. fo tals and 2s. 2d. for powder.

BISMUTH.—Home-trade inquiry h small. Home-trade rates for 1-cw are: CARBONATE, 14s. 5d. per lb.; C 12s. 1d.; SALICYLATE and SUBN 12s. 4d.; SUBGALLATE, 15s. 4d.

BORIC ACID.—Rates for B.P. gra unchanged as follows: Granular, £ ton; powder, £62; powder, extra-fin crystal, £61. Rates for commercia Granular, £48 per ton; powder, £51 der, extra-fine (or crystal), £53. quantities are from 1s. to 5s. pe more than the foregoing rates. C paid (minimum 1-ton lots) in the U

CREAM OF TARTAR.—Makers' rat the home trade are: 10 cwt. lots, per cwt.; 5-10 cwt., 149s.; less than and more than 2 cwt., 150s.; 1-2 152s., delivered.

OMISOVALERYLUREA.—Quotations are 37s. 6d. to 42s. per lb., as to quantity.

TOBARBITONE.—Makers' prices for quantities are from 73s. per lb.

TYL CHLORAL HYDRATE. — In good y; prices are from 17s. 6d. per lb.

FFEINE.—Makers' prices per lb. are: LOID, anhydrous, from 33s. 6d. to 6d., and B.P., from 31s. 6d. to 6d.; CITRATE, B.P.C., from 18s. 6d. s. 6d.; SODIUM BENZOATE, B.P., from to 26s.; SODIUM SALICYLATE, B.P.C., 21s. 9d. to 26s. 9d.; SODIUM IODIDE, 25s. 6d. to 29s. 6d. Assorted orders be booked with the exception of caf- and sodium iodide (theobromine alka- nd salts may be included). Contai- 14-lb. and 28-lb. tins free; other ges charged extra. Carriage paid on s of £20 value and over.

LCIUM GLUCONATE.—Quantities of up- s from 3 cwt. are quoted at 3s. 6d. b.; 1 cwt—2 cwt., 3s. 7d. per lb.; er quantities up to 3s. 10d. per lb.

LORAL HYDRATE. — Current rates per or the home trade are: 1-cwt. lots, 56-lb., 4s. 2d.; 28-lb., 4s. 4d.

LOROCRESOL.—Pharmaceutical quality oted at 4s. per lb. in 1-cwt. drums.

LOROFORM.—Makers' prices for 1-cwt. n winchesters is 3s. 2d. per lb.; 56-lb., d. In drums, prices are 3s. 0½d. and per lb., respectively.

LOROXYLENOL.—B.P. quality is quoted 6d. per lb. in 1-cwt. drums.

RYSAROBIN. — Makers' rates are: lots, 42s. 6d.; 56-lb., 45s.; 28-lb., 6d.; under 28 lb., 52s. per lb.

NCHOPHEN.—Steady. Prices are from to 30s. per lb., according to quantity.

YCEROPHOSPHATES. — Makers' list s per lb. are as follows: CALCIUM BLE, 10s. 6d.: IRON SCALE, 11s. 9d.; 20 per cent. (B.P.C.), 8s. 3d. NESIUM (INSOLUBLE), 10s.; MAGNESIUM UBLE), 19s. 3d.; MANGANESE, 24s. 3d.; SSIUM, 50 per cent., 5s. 11d.; 75 per 7s. 9d.; SODIUM, 10s. 9d.; 50 per 4s. 7d.; 75 per cent., 5s. 8d. Quanti- of 7 lb., 6d. per lb. less than above ; other quantities in proportion.

DROCYANIC ACID.—B.P.C. (Scheele's) oted at 1s. 5½d. per lb. and B.P. at ½d. per lb.

DROQUINONE.—Bulk rates are as fol- : 10 cwt., 9s. 6d.; 5 cwt., 9s. 9d.; t., 10s.; 28 lb., 11s.; 14 lb., 11s. 3d. 11s. 6d. per lb. Carriage paid in U.K.

YPOPHOSPHITES.—Makers' rates per lb. 7-lb. lots are: AMMONIUM, 9s. 3d.; UM, 6s. 3d.; CALCIUM, 4s. 11d.; IRON, d.; MAGNESIUM, 7s. 9d.; MANGANESE, 5d.; POTASSIUM, 6s. 1d.; SODIUM, d.

LACTATES. — Current quotations are: CALCIUM, 2s. 2½d. to 2s. 6½d.; CALCIUM SODIUM, 3s. 5d. to 3s. 9d. per lb. LACTIC ACID, B.P., is 3s. 3d. per lb in carboys, and from 3s. 4½d. to 3s. 10d. in winchesters.

LACTOSE.—Dutch is quoted at 1s. 7d. per lb. for 5-ton lots; 3-ton, 1s. 7¼d.; 1-ton, 1s. 7¾d.; less than one ton, 1s. 8d., duty paid, ex wharf London. English is from £120 per ton.

MERCURY SALTS. — Prices for the home trade are as follows: AMMONIUM CHLORIDE, B.P., powder, from 8s. 2d. (1-cwt. lots) to 8s. 10d. (7-lb.) per lb.; lump, 8s. to 8s. 8d. BICHLORIDE, B.P., powder, 6s. 9d. to 7s. 5d. per lb.; lump, 7s. 3d. to 7s. 11d. CALOMEL, B.P., 8s. 2d. to 8s. 10d. per lb. RED OXIDE, B.P.C., and YELLOW OXIDE, B.P., from 8s. 8d. to 9s. 4d. per lb.

METHYL SALICYLATE.—Current rates are as follows: Winchester quarts, 2s. 2½d. per lb.; 56 lb., in demijohns, 2s. 1d.; 1 cwt. in demijohns or carboys, 2s. 0½d.; 5 cwt., 2s. All prices are net.

NICOTINIC ACID.—Quotations are about 40s. to 42s. per lb., as to quantity.

ORTHOCAINE.—In good request. Quotations are from 120s. to 125s. per lb., as to quantity.

PANCREATIN.—Prices range from 12s. to 13s. per lb. for B.P. quality; U.S.P. standard is offered at from 13s. 6d. to 14s. 3d.

PHENOLPHTHALEIN. — Steady. Makers' prices are: 1-cwt. lots, 6s. 10d.; 28-lb., 7s.; 14-lb., 7s. 3d. per lb.

β-PHENOXYETHYLALCOHOL.—In good request; prices are from 40s. per lb.

ROCHELLE SALT. — Rates per cwt. for powder or granular salt are: 5 cwt., 130s.; 1 cwt., 132s. 6d. Crystal is 2s. 6d. per cwt. more than the foregoing prices. SEIDLITZ POWDER, ordinary, is now 103s. 9d. per cwt.; extra strong, 111s. 6d. per cwt.; double strength, 116s. per cwt.

SULPHACETAMIDE. — A good export demand. Quotations are in region of 26s. to 30s. per lb. The SODIUM derivative is priced at 32s. 6d. to 36s. 6d. per lb.

SULPHAGUANIDINE. — A fair inquiry is being received; prices are from 17s. 6d. to 18s. 6d. per lb., as to quantity.

SULPHANILAMIDE.—Steady. Prices are as follows: 5 cwt., 6s. 3d.; 1 cwt., 6s. 6d.; 28 lb., 6s. 10d.; 14 lb., 7s.; 7 lb., 7s. 9d. per lb., net; packing extra.

THEOPHYLLINE.—The market continues steady. Prices of ALKOLOID range from 60s. to 65s. per lb., as to quantity; with ethylene diamine (AMINOPHYLLINE, B.P.) prices are from 70s. to 74s. per lb.

ZINC OXIDE.—All grades were advanced in price by £2 7s. 6d. per ton on July 26. B.P. is now £74 10s. per ton (2-ton lots); red seal, £63 10s.; green seal, £65; white seal, £66; delivered in U.K.

Crude Drugs

ACONITE.—Indian, on the spot, is offered at 275s. per cwt.; *napellus*, quoted at 3s. 10½d. to 4s. 3d., duty paid.

AGAR.—Steady. Kobé strip is offering at from 13s. 6d. to 15s. per lb., according to quality. South African powder, in tins in cases, is quoted at 18s. 3d. per lb., spot.

ARAROBA.—Parcels afloat are quoted at 13s. per kilo, c.i.f., London or Liverpool.

BALSAMS.—*Canada* on the spot is steady at from 12s. 6d. per lb. for new-crop material. Pará *Copaiba*, B.P., 5s. 9d. per lb., on the spot. San Salvador *Peru*, business done at 4s. 6d. per lb., duty paid. *Tolu* is quoted at 9s. per lb., spot; July-August, 8s. 6d., c.i.f.

BENZOIN.—A firmer market. Sumatra block, on the spot, is offered at from £17 to £17 10s. per cwt.; shipment, £17 c.i.f. Siam block (small almonds), £118, c.i.f.

BLACK HAW.—Root bark is offered at 4s. 6d. per lb., duty paid; tree bark, 3s. 3d., duty paid.

CASCARA SAGRADA. — Quiet. Quotations for mature bark on the spot are around 175s. per cwt., duty paid.

CHILLIES.—Mombasa is difficult to find and is valued at 155s. per cwt., spot; Sierra Leone and Nigerian, nominal.

CLOVE.—No offers of Zanzibar on the spot; any supplies would be worth 1s. 4d. per lb. Madagascar are 1s. 2d. per lb., duty paid; 1s. 1d., in bond. Penang are quoted from 3s. to 3s. 3d. per lb., spot.

ERGOT.—In good inquiry on spot but no offers. Old-crop, buyers at 13s. to 14s. per lb., c.i.f. New-crop reported to be a failure.

GINGER.—African on spot is quoted at 180s. per cwt.; afloat, 180s., c.i.f. Jamaican No. 1, 197s. 6d. per cwt., spot; No. 2, 195s., value; No. 3, to arrive July-August, 185s., c.i.f.

GUM ACACIA. — Kordofan cleaned sorts, on the spot, sellers at 64s. per cwt.; shipment, 61s. 6d., c.i.f. Bleached No. 1, 125s., spot; to arrive, 115s., c.i.f. Talha, on spot, 45s. per cwt.; shipment 42s. per cwt., c.i.f. Market continues quiet.

HENNA.—Sudanese leaves are offered at 75s. to 80s. per cwt., spot; at origin, 85s. per cwt., c.i.f. Indian leaves on spot, 75s.

IPECACUANHA.—Firm. Nicaraguan, October-November shipment, quoted at 21s. 6d. to 22s. per lb., c.i.f.; spot quotations are from 24s. per lb. as to test. Colombian is quoted at 20s. per lb., spot; 19s. c.i.f.

JABORANDI. — Attracting little interest. Leaves of rather poor quality are offering at 75s. per cwt., spot.

JALAP.—Vera Cruz, spot, 2s. 6d. to 3s. per lb. as to test. (10 to 15 per cent. resin). Brazilian (13 per cent.), 1s. 6d. quoted.

KAMALA.—Quoted at 2s. 3d. per lb., s

KARAYA.—Steady. No. 1 gum on sp quoted at 215s.; to arrive, 205s., c.i.f. 2, 180s. per cwt., spot.

MACE.—West Indian blade is quote 6s. per lb. on the spot; prices of picl are from 2s. to 4s. 6d., as to quality.

MENTHOL.—Steady. Brazilian, spo quoted at 62s. to 62s. 6d., duty paid.

PAPAIN.—East African, on the spo easier at 12s. 6d. per lb.; Ceylon br quoted at 9s. per lb., spot.

RHATANY.—Quiet. Spot quotations unchanged at 9d. per lb.

RHUBARB. — Chinese common roun the spot, is quoted at from 5s. 6d 5s. 9d., duty paid, according to fra and holder.

SANDARAC.—Old-crop material is of at 5s. 3d. and new-crop at 5s. 6d. pe spot London.

SARSAPARILLA.—Jamaica native red the spot, is offered at 2s. to 2s. 2d. lb.: Jamaican grey, 3s. 6d., spot.

SEEDS.—ANISE is quiet. Cyprus is qu at 150s. per cwt., duty free; and Tur 140s., duty paid, both spot London. C WAY.—Dutch is slow of sale at 106s. cwt., duty paid, spot London. CELE Indian is offered at 1s. per lb., spot Lo or Liverpool. CORIANDER.—Market changed. Morocco on spot is quote 37s. 6d. per cwt., in bond London; A tine, 27s. 6d. per cwt., duty paid in Lo CUMIN.—Little more inquiry. Cyprus spot, is quoted at 140s. per cwt.; In spot London or Liverpool, 150s. per Morocco now afloat, is offering at 130s cwt., c.i.f. DILL.—Indian remains fir 55s. per cwt., spot London. FENNEL.—Ir spot London, is 70s. per cwt. FENUGR —Market firm. Indian is 55s. to 57s per cwt., spot London; Morocco, quot 52s. 6d. per cwt., duty paid, London. erate inquiry.

SENEGA. — Spot quotations for old are at 6s. 3d. per lb.; new-crop, August shipment, 5s. 6d., c.i.f.

SENNA.—Tinnevelly leaves, spot, N from 9½d. to 11d. per lb.; No 7½d. to 8d.; No. 3, 6d. per lb.; Tinne pods, hand-picked, 9d. to 1s. 5d.; man turing, 5d. to 6d. Alexandrian pods, picked, spot, from 4s. 9d. to 5s. 9d. lb., nominal; medium grades are 3s. to manufacturing, from 1s. to 1s. 9d. pe Alexandrian leaves, f.a.q., 1s. 2d. per

SHELLAC.—F.O.T.N., pure, is quote 330s. per cwt., ex warehouse London; Standard 1, 350s., buyers; fine or 380s. to 410s. per cwt.

SQUILL.—Italian fair white on sp quoted at 52s. 6d. per lb.

STRAMONIUM.—Quiet. Indian on is offered at 55s. per cwt.; Hunga 80s., spot.

ONKA BEANS.—Trinidad, spot, 7s. 3d. lb., nominal; Angostura, 8s., spot.

URMERIC.—Firm. Spot quotations for iras are at 112s. 6d.; July-August ship- t is quoted at 106s. per cwt., c.i.f.

AXES.—Steady. BEES'.—Dar-es-Salaam 35s. per cwt., spot; July-August, 330s., Sudanese, in bond, 310s.; for ship- t, 290s. per cwt., c.i.f. Lindi, 330s. per spot; July-August, 322s. 6d., c.i.f. guela is 305s. per cwt. in bond and s. duty paid; for shipment, 275s., c.i.f.

DELILLA.—A parcel on spot is offered 310s. per cwt.; August delivery, 295s.

NAUBA.—Prime yellow is 685s. per cwt., ; shipment, 610s., c.i.f. Fatty grey on is at 450s. per cwt.; July-August ship- t, 450s., c.i.f. No offers of chalky grey.

TAN.—Reibeck is offering at 180s. per , spot; shipment, 150s., c.i.f. OURICURI. 0.5 per cent. pure is quoted at 420s. cwt., c.i.f. A parcel of 3.4 per cent. urities is offered at 435s., spot. SPER- ETI.—Offered at 2s. 5d. per lb., spot.

Essential and Expressed Oils

LMOND.—Sweet oil, B.P., on the spot, ffered at from 3s. 6d. to 4s. 6d. per lb. er oil is quoted at from 27s. 6d. to 60s. lb., as to grade.

ITRONELLA.—Firm. Ceylon on the spot uoted at from 4s. 9d. per lb., July- ust, 4s. 2½d., c.i.f.; Java, 9s. 6d., c.i.f., ards.

LOVE.—Firmer. Quotations for Eng- distilled bud oil are at from 10s. 9d. to 6d. per lb., according to quantity; im- ed oil is offered at from 5s. 6d. to 7s.

UCALYPTUS.—Spot quotations for 70-75 cent. (B.P.) are from 2s. 8d. to 3s. 6d. lb. for drums, as to seller; for ship- t, 3s. 1d. to 3s. 3d., c.i.f., quoted.

ERANIUM.—Bourbon on spot is offered 6s. to 60s. per lb.; African is quoted bout 60s. per lb., spot.

UAIACWOOD.—Spot quotations are at 1 16s. to 18s. per lb.

UNIPER BERRY.—Czechoslovak is quoted rom 17s. 6d. to 20s. per lb., spot; Eng- 70s. to 100s. as to grade and seller.

AVANDIN.—Spot quotations are at from o 7s. per lb., as to quality.

EMONGRASS. — Firm. Spot quotations 8s. 9d. to 9s. per lb.; July-August ship- t, 8s. 3d. to 8s. 5d., c.i.f.

LIVE.—Importers' Associations' rate is 2d. per gall. of 9 lb., ex store, drums ided. Additional charges are added small quantities, according to costs of king bulk, containers, delivery, etc.

RANGE. — West African sweet on the is at 7s. per lb., duty paid. Italian t is quoted at from 18s., duty paid; an bitter, from 13s., duty paid.

ORIGANUM. — Quotations are from 17s. 9d. to 18s. 6d. per lb., on the spot.

PALMAROSA.—Nominal spot quotation is 35s. per lb.; shipment, 32s. 6d., c.i.f.

PATCHOULI. — Singapore is quoted at 36s. 6d. per lb., c.i.f., for immediate shipment. Small supplies only on spot at from 37s. 6d. per lb.

SASSAFRAS.—Brazil on spot is quoted at from 4s. 6d. to 5s. 3d. per lb.

TEASEED. — Spot quotations for refined oil are at 23s. per gall.

"SUDDEN DEATH" DISEASE OF CLOVES

IN response to a request, Mr. D. Williams (general manager, Zanzibar Clove Growers' Association) has issued a statement on the disease (*C. & D.*, July 23, p. 124) which affects the clove tree. Mr. Williams says:—"As far back as the end of the last century clove trees in Zanzibar were known to suffer from a mysterious disease known locally as 'sudden death.' Recent research into the cause has given grounds for the belief that the trouble is caused by a virus. In Zanzibar island it is estimated that 70 per cent. of the clove trees have died over the period of years but there have been other complicating causes such as drought. Three periods of drought are on record as having been responsible for heavy losses of clove trees; the last one was in the year 1946 when some 70,000 trees died. In Pemba island there are about 500 small sporadic outbreaks of 'sudden death' and it is intended to isolate these by cutting out the dead and contact trees; it is estimated that some 60,000 trees will be cut by this operation.

"'Sudden death' disease normally affects older trees. Regeneration has been going on steadily for many years, and a large number of young trees have already reached the bearing stage. The total clove tree population of both islands is estimated at 4,000,000 and it will be noted that the number of trees which it is proposed to cut out constitute 1.5 per cent. The clove tree is well known to be a fluctuating bearer and the 1949-50 crop is expected to be 50 per cent. of a full crop. This is quite a normal state of affairs and has no connection with the 'sudden death' disease. There is no reason to believe, particularly in view of the action being taken, that Zanzibar will not be the prime producer of cloves for many years to come."

TRADE MARKS

(*From the "Trade Marks Journal," July* 13).

For pharmaceutical preparations (5).—"ASEPAN"; by Imperial Chemical (Pharmaceuticals), Ltd., Slough; 669,193. "CYROGONE"; by Bayer Products, Ltd., London, W.C.2; 672,188. "LUTOGYNOESTRYL"; by Roussel Laboratories, Ltd.; London, W.1; 673,628. "AMIGDOBIS"; by The Crown Chemical Co., Ltd., Lamberhurst; 674,443. "NIVAQUINE"; by May & Baker, Ltd., Dagenham; 675,160. "CAFERGONE"; by Sandoz A. G., Basle; 675,731. "SAVORQUIN"; by Savory & Moore, Ltd., London, W.1; 675,939. "VISCO-PYELOSIL"; by Glaxo Laboratories, Ltd., Greenford; 679,075.

For toilet preparations (3).—"RUSSIA LEATHER SIMPSON PICCADILLY" on label device; by Simpson (Piccadilly), Ltd., London, W.1; 659,338.—"TRICANA"; by Trinidad Leaseholds, Ltd., London, W.1; 674,736.

For detergents (3).—"DAINTEX"; by J. Dempson & Co., Ltd., London, N.1; 663,922. "HAVAGO" and "LOPEET"; by Alexander Fraser Reid; Chester; B671,161 and 671,162. "NURSERYMAID" and "NURSEMAID"; by Cooper, McDougall & Robertson, Ltd., Berkhamsted; B672,789-90.

For veterinary preparations, etc. (5).—"LOGOL"; by the General Kaputine Syndicate, Ltd., Oldham; 663,479.—"PREVENTEX" on label device including dogs; by Preventex Products, Manchester; 658,507.

For insecticides (5).—"KILCROBE"; by Hull Chemical Works, Ltd., Hull; 664,242.

For disinfectants, etc. (5).—"DETTOLIN"; by Reckitt & Colman, Ltd., Hull; 678,816. "HIBRO"; by Koray, Ltd., London, W.1; 666,547.

For medicines (5).—"MEDOBIS"; by the Crown Chemical Co., Ltd., Lamberhurst; 674,445.

For fungicides, insecticides, etc. (5).—"TRICANA"; by Trinidad Leaseholds, Ltd., London, W.1; 674,738.

For all goods (5).—"NOVATROPIT"; by the Crown Chemical Co., Ltd., Lamberhurst; 675,408.

For scientific apparatus and instruments (9).—Circle device including the words KAYLENE BRAND, TERRA SIGILLATA and "KAYLOMETER"; by Kaylene, Ltd., London, N.W.2; 673,227 and 673,229.

TRADE LITERATURE

Recent publications of the BRITISH BER PRODUCERS' RESEARCH ASSOCIA Tewin Road, Welwyn, Herts, in "Ultrasonic Dispersion in Or Liquids," "Kinetic Studies in the C istry of Rubber" and "Absorption tra and Structure of Organic Su Compounds."

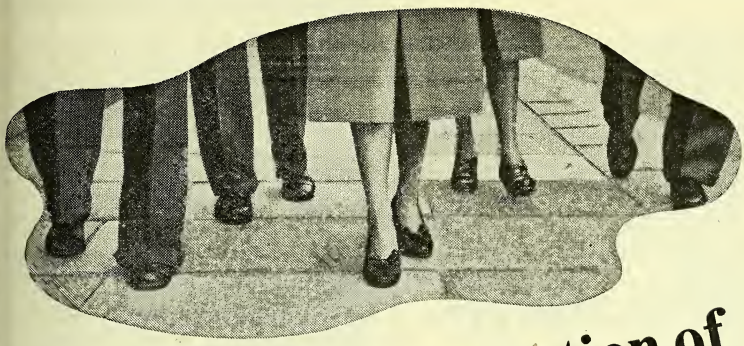
Recent booklets addressed to the m profession by CIBA LABORATORIES, Horsham, Sussex, deal with Antistin allergic and Antistin-Privine anti-al and vasoconstrictor; Eticyclin (et œstradiol) orally active œstrogen; Priscol vasodilator.

Literature describing the method o of thromboplastin (Evans) for the es tion of prothrombin time is now ava on request to the Home Medical De ment, Speke, Liverpool, 19, or 50 tholomew Close, London, E.C.1. company have also recently issued turn to the Sunshine," a 12-page bro on liver therapy and Neo-Hepatex.

THOMAS KERFOOT & CO., LTD., V Bardsley, Ashton-under-Lyne, have i a 20-page booklet entitled "The T ment of Calcium Deficiency," in are discussed the physiology of calci its relation to vitamin D; the ph cology and therapeutics of calcium vitamin D; the calcium content of va foods, and the use of the company's paration Caldecium, a granular pre tion presenting calcium and vitamin association with one another (profes samples of the product are avail Messrs. Kerfoot also issue a useful of 8-page miniature booklets on their of barbiturate tablets, on "Ophth Preparations," and on "The Table the British Pharmacopœia, 1948."

A new series of 4-page folders, "Fa Patients," with front covers in full c from paintings by Chevalier Fort Matania, R.I., is being issued by M & JAMES, LTD., 123 Coldharbour London, S.E.5, to advertise the comp medical specialities. Nos. 1 and 2 c King George IV and Stephen G Cleveland (22nd and 24th Preside the United States).

The 1947-48 report of the RESEARCH INSTITUTE, Fraser Road, G ford, Middlesex, includes reports on r work on corrosion, tin-zinc coatings, and an account of lectures given o properties and uses of the metal.



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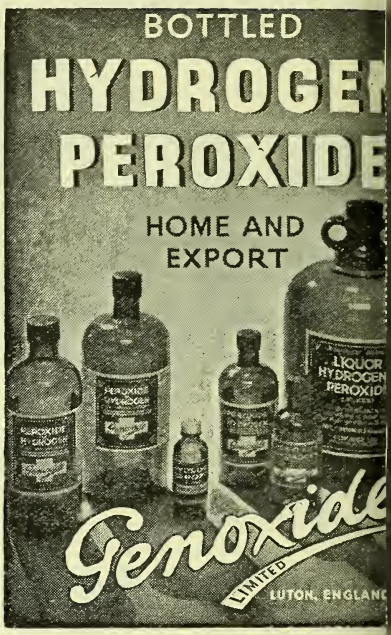

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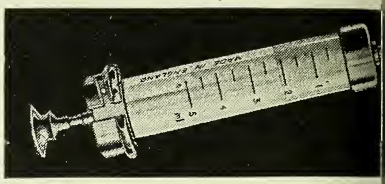

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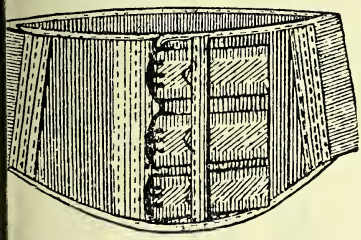

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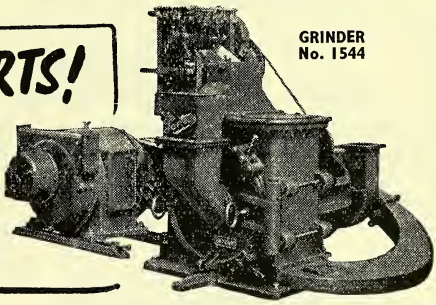

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TABLETS

any shape or size up to 1½"
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Private Formulas compounded by Experts. Strict secrecy guaranteed.

OVER 40 YEARS' PRACTICAL EXPERIENCE.
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BUCKLEY-BOWKER TABLET CO. LTD
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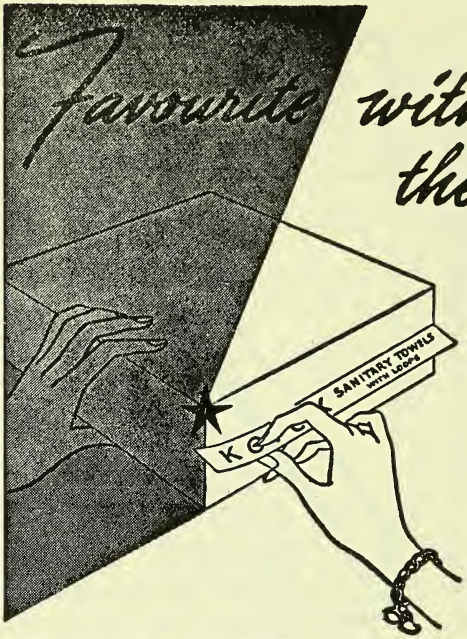

Favourite with women the world over

★ Simply remove the perforated
and the plain box is ready for sale

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WITH LOOPS

New 1/10d. per Box (C.P.R.C Appr

CELLUCOTTON PRODUCTS LTD., 33/34 AYLMER PARADE, LONDON,

HERE'S A CORN REMEDY YOU CAN'T BEAT

Hobson's Choice removes Corns in 3 to 7 days, it is safe, sure and painless. Backed up by widespread advertising it has become the leading CORN CURE on the market to-day.

100 Hobson's Choice 99
FEET PLAISTERS POWDERS

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Plaisters - - 2½d.
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OVER 150 YEARS REPUTA
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9d. BOX PROFIT by ordering 1
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A Brighter Future . . .

There is good news for our customers at last. An increase in deliveries of raw material means that some increase in supplies will be available to our stockists in the months ahead. As is our usual policy the benefits of this increased production will be passed on in the form of a reduction in price. Stanex and Andrex toilet tissues and Stanex paper handkerchiefs are effected by this price change and our revised price list appears below.

In the meantime we are most grateful to our old customers and to the hundreds of potential-customers for their patience and understanding of our unique and most difficult position.

T. ANDREW MILLS' PRODUCTS include:

		RETAIL PRICE (*incl. Pur. Tax*)
ANDREX	The softest Toilet Tissue—made entirely of the purest materials	1/0d. per roll
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Wholesale only:

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The name that means everything to a Woman

VELENA

Soluble Sanitary Towels

In packets of Six 10½d. and packets of Twelve 1/9d.
Velena, Alperton Mills, Alperton, Middx.

One of the new VELENA advertisements now appearing in the daily press and selected women's magazines . . . an estimated total readership of over 12 million women. This, and the high quality of VELENA, is your assurance of steady *and increasing* demand.

Trade enquiries to **VELENA**
Alperton Mills, Woodside End, Mount Pleasant Alperton, Middlesex.

An
ALL-BRITISH FIRM
have pleasure in announcing that:—

BRONCHOVYDRI

is back on the BRITISH MARKET

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EXEMPT *from* PURCHASE TA

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This Inhalant for the Treatment Asthma is now Obtainable from th

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BRONCHOVYDRIN (1945) LTD
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FINE SELLING LINE OF

t water bottles

eley moulded Hot Water Bottles upplied in an attractive range of ors, whilst hand-made fabric orced are manufactured in red white. The name 'MOSELEY' very bottle stamps these goods e products of a firm experienced over a century in the finest manship in rubber.

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ACUUM FLASKS

ttractive colours at popular prices

London Delivery Free

Special Terms to Wholesalers

SPECIAL OFFER of Rubber Gloves

vy Gauge Rubber Gloves	16/- doz.
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Your Sundries may be delivered weekly by our own vans in London and Suburbs

Please send for our FREE C. D. price list or 'phone AVEnue 4966 Ext. 1

FRANKENBERG LTD
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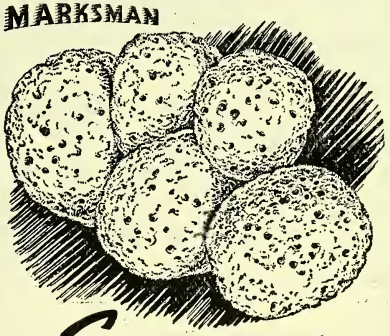

Sponges

SEND TODAY FOR A COPY OF OUR LATEST PRICE LIST

Leslie Marks & Company Ltd.

Importers and Exporters of Fine Sponges, Chamois Leather Dressers

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FOR CORKS

WHERE CORKS ARE CONCERNED, we're simply tyrants. No nonsense about fraternity! We glory in grinding out every particle of individuality from our corks, with calculated sadism and devastating efficiency.

From the moment it is torn from some protesting tree in the forests of Spain, our cork undergoes the most brutal treatment. Only the very best can stand it. After being boiled, scraped, pressed, and baked in the dreaded "hot-box," it's well on the way to terrified uniformity.

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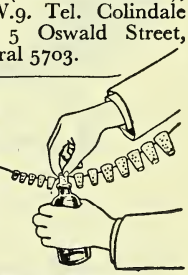
Just wrong, by 1/63rd of an inch. And what a fate!

If, after all this, there remains even 1/63rd of an inch of individuality about a cork—away it goes, ignominiously, to make by-products. Only *perfect* corks survive.

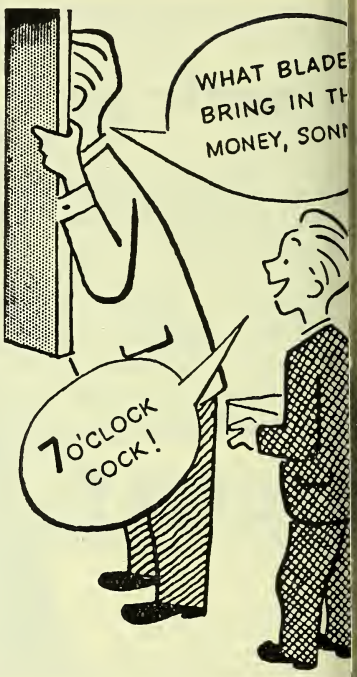
We believe that where corks are concerned, most of our customers are good totalitarians, and agree with us that corks should be absolutely regular in quality and size, indistinguishable from each other. If that's how *you* feel—we should be glad to show how well we can meet your strictest requirements. Armstrong Cork Co. Ltd. (Closure Division), Kingsbury, London, N.W.9. Tel. Colindale 7080. Scottish Branch: 5 Oswald Street, Glasgow, C.1. Tel. Central 5703.

FREE ON REQUEST. *The handy Armstrong string of standard cork sizes shows at once what size you want—whether for dispensing or for ordering supplies. May we send you one?*



ARMSTRONG'S CORKS

CORKS · CROWN CORKS · MOULDED CAPS



Everybody's saying it—"7 o'cl
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—7 O'CLOCK blades. Triple-ground
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FOR SIX
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Actually **COST LESS** *than* **PRE-W**

Trade enquiries to your wholesaler or to Gillette Indu
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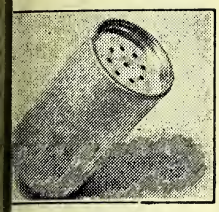

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We Specialise in ..
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DESTROYING RATS and MICE
LER'S EXTRACT OF SQUILL
ways in demand as it is a standard
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For the destruction of
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USE
ANZO BEETLE POWDER"

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asiticide and Insecticide in liquid form
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THE WORLD'S
LARGEST-SELLING
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OVER 35,000 already sold

The OUTFIT, comprising 8 oz. bottle of Rentokil Timber Fluid complete with injector, retails at 10/6

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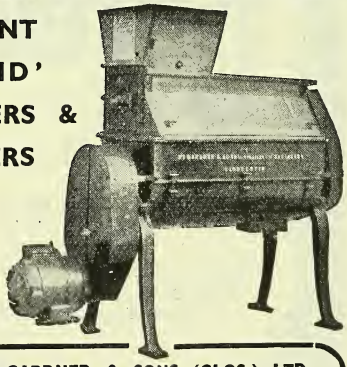

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TRANSPARENT JAM POT COVERS & Drinking Tubes

. . . . now retailing at 9d. per unit.

Contents:
Drinking Tubes — approx. 60 per packet.
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Prices and samples on application to:—

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rain quality, supplies were res- during the war, today Drummer idly regains its leading position quence of the goodwill of the and public. People have nce in the powerful disin- germicidal properties of MER PINE and they love the ce that "spells clean."

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If only we could pack it we'd make a packet...

Box clever-ring up PETRUSHKIN

AND SOLVE YOUR PACKAGING PROBLEMS

We have provided manufacturers in every part of the country with an efficient box-making service for over half-a-century. This experience, plus the advantages of the most modern machines, is at your command today. Incidentally, we have spare capacity just now for making rigid and folding wire-stitched cartons, also small-size round boxes with beaded edges.

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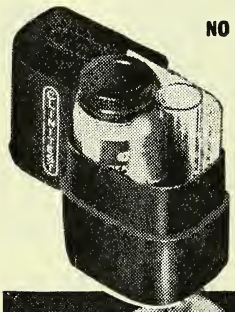
183, BOW ROAD, LONDON, E.3
ADVANCE 3131

The new one-minute tablet test for detecting urine-sugar

CLINITEST

TRADE MARK

CLINITEST has been approved by the Medical Advisory Committee of the Diabetic Association. Doctors and Diabetics are writing enthusiastic letters about this unique *tablet* test. It is already widely used in America, Canada and other countries, and is now available in the United Kingd CLINITEST is a simple, fast copper rec tion test with all reagents compressed i single tablet. It is based on the same che cal principles involved in the Benedict T but with the following unique advantag



NO EXTERNAL HEATING The tablet generates its own heat. (No flame or w bath required).

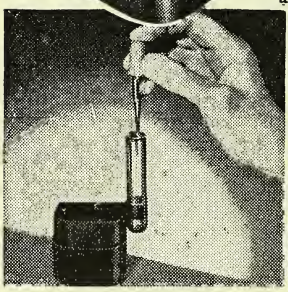
SIMPLICITY . . Only three simple steps involved. (No measurin reagents).

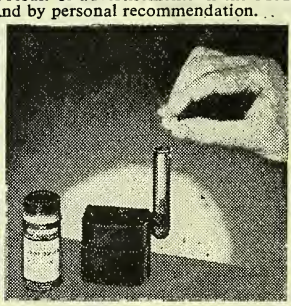
SPEED . . . The complete test takes less than one minute.

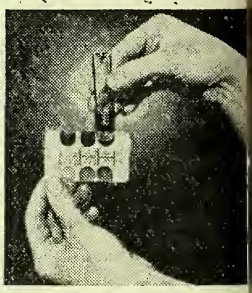
RELIABILITY . . CLINITEST is equal in sensitivity and reliabilit the other standard copper reduction tests.

CONVENIENCE . All essentials are contained in a hygienic pocket case. (No bulky apparatus).

The use of CLINITEST is spreading rapidly among Doctors and Diabetic a result of advertisements in the Medical Journals, The Diabetic Jou and by personal recommendation.







***Every Diabetic will be interested in* CLINITEST**

A supply of illustrated leaflets for distribution to the public with all sales of Insulin and other diabetic products will be sent with all orders.

CLINITEST SET, complete . **12/-** Retail } *Trade Dis.* 33⅓%
REFILL BOTTLE (36 tablets) . **4/-** Retail }

CLINITEST is *not* subject to Purchase Tax

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Sole Distributors for Ames Company, Inc.

A PRODUCT OF THE AMES COMPANY INC., ELKHART, IND., U.S

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Wholesale and Export only

There are dozens of reasons why the modern woman prefers Tampax. Unobtrusive in use, Tampax is safe, comfortable and certain; giving absolute protection at all times with the maximum daintiness. Tampax, worn internally, was invented by a doctor, and anatomically is perfect in every detail.

Now that Tampax Super Absorbent No. 2 is available, you can cater for every individual requirement. Where Tampax is displayed, women will readily buy, so display Tampax No. 1 and 2, side by side, and get more sales. *Regular Tampax No. 1—1/9d. per packet; 40 for 6/6d. Regular Tampax No. 2—2/- per packet; 40 for 7/6d.*

TAMPAX *Sanitary Protection Worn Internally*

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Marigold regd. PRODUCTS

New!
MARIGOLD
all-purpose
BBER GLOVES

TE-LINED — to slip on or y

EXTERIOR for non-slip grip nd protection for home, gar-garage

is line — it's a sure seller!

FEEDING BOTTLE TEATS AND VALVES (and Soothers, too!)

'Golden clear' natural Latex construction, scientifically designed for baby's comfort—hygienic and safe. Easily sterilised. Guaranteed store life—always soft and resilient.

There is an all-the-year-round ready sale for these lines. Show them—they'll sell!

All products packed in dustproof cellophane wrapping. Attractive showcards and display material also available.

Home and Export Enquiries to :—

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Moulded Hot Water Bottles
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J. MANDLEBERG & CO. LTD.
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WHOLESALE ONLY
MANDELLE

BAD SKIN
COST HIM HIS JOB

A friend helped him

This unfortunate young man couldn't get rid of a very persistent skin complaint. So bad did it get that he finally had to leave his job! Then a friend recommended Valderma and he was soon at work again.

Valderma contains two antiseptics. Working together, they penetrate deep into the pores of your skin, and kill off the germs that cause skin troubles. Irritation ends. The skin quickly becomes clear and healthy. Valderma is white, creamy, non-greasy, non-staining. Get a jar today — and say goodbye to *your* skin troubles *now*. At Boots, Timothy Whites and all chemists. Jars at 2/2½d. Double-size 3/10d. The larger size saves you money.

★ Other people do notice those skin blemishes! This young man ended his with double-antiseptic Valderma. You can do the same! ★

DOUBLE-ANTISEPTIC
Valderma
THE *Non-Greasy* BALM

e of the millions of powerful new man-interest advertisements that are eating increased Valderma demand

ns of powerful new Valderma advertnts with a strong human-interest are appearing regularly in all the leading nal and provincial newspapers and zines.

interesting, sales-getting advertising is asing the demand. Get your full share s business. Display Valderma in your ow. Put it on your counter. Recommend it is a scientifically sound and modern ict worthy of your recommendation. mber every 2/2½d. jar of Valderma puts into your pocket and every 3/10d. jar s 1/- for you. *Offer the large size* — its are growing fast — which means sands of satisfied customers.

r attractive, handy size display card *now*.

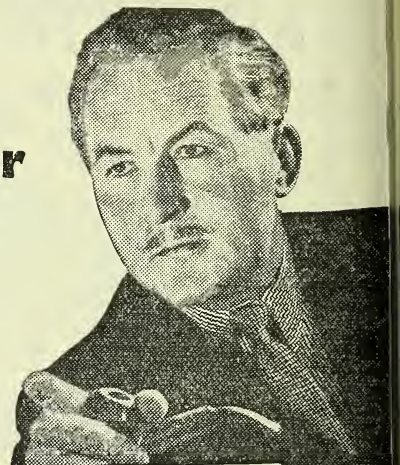
ANALYST'S REPORT SHOWS MARKED VALDERMA SUPERIORITY AGAINST CERTAIN BACTERIA

A public analyst and an eminent bacteriologist recently submitted reports in which Valderma was compared with other well-known skin ointments.
Valderma was shown to have a definite superiority against Strep. viridans, Bact. coli communis B. megatherium and the Diphtheroid organism. (Full technical report, on request.)

Valderma
DOUBLE-ANTISEPTIC BALM

HEALTH LABORATORIES LIMITED, 17 BERNERS STREET, LONDON, W.1.

Straight from the shoulder



I represent the manufacturers whose empty containers are collected by C.R.S. I want to tell you, straight from the shoulder, that we still need, as urgently as ever, every empty C.R.S container lying in your shops. More goods are becoming available, but there are still not enough new containers to carry them. If you want your share, you must play your part by backing C.R.S to the limit. It's *your* service, for *your* benefit—don't let it down.

Container Recovery Service

S.P.D. Limited, 3-5 Salisbury Square, London, E.C.4

CRS 58-68:

Bottle Filling Machines . . .

Jackson Metal Furniture Ltd.

wish to announce

that the manufacture and sale of the Bottle Filling Machines previously marketed by Messrs. L. T. Lauder and Co. have been taken over by this Company.

Embodying certain definite improvements on the original design, Gravity Filling Machines will shortly be available in three sizes—2 gallon, 5 gallon and 10 gallon.

Full details and descriptive literature gladly available upon request

from

Jackson Metal Furniture Ltd.

Vulcan Works, Shafton Lane, Leeds 11

Phone Leeds 31088, Ext. 7

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Horse Remedies

P.A.T.A. Protected Prices

Supplies can be obtained through all Wholesale H

HARVEY & CO. (DUBLIN) **LTD.,** DUB

SHOWCARDS **CARTONS & BOXES** DISPLAYS

PRINTED OR PLAIN

OF EVERY KIND, FOR EVERY PURPOSE

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INDIA's best drug tra journal can g you agents, d tributors, on royalty manufacture CHEMIST & DRUGSTORE NEW est. 1937, reaches directly retaile wholesalers, importers, manufac rers, reps. and Indian manufacture Also covers Pakistan, Ceylo 31, Hamam St., Bombay, 4 Copy, details free.

YOU have asked for it... and here it is!

The most popular mice repellent on the market

NEW SMART ONE DOZEN 1/- SCRAM COUNTER DISPLAY BOX 8/9

Also available in 3 doz. Display Box at 25/6

NATIONALLY ADVERTISED

- NO BAIT
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- MORE THAN 1,000,000 PACKETS SOLD PER YEAR
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- HARMLESS TO CHILDREN AND PETS

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ACKS THAT SELL, SELL, SELL!

AM PRODUCTS LTD. (C.D.), Dartmouth Park Hill, London, N.W.5

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COMPRESSED MEDICINAL TABLETS

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MODERN PLANT

PROMPT DELIVERY

QUALITY AND ACCURACY IS GUARANTEED

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This offer is open to recognised dealers and chemists only with a guarantee to refund cash if not satisfied.

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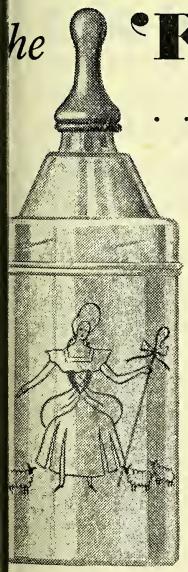

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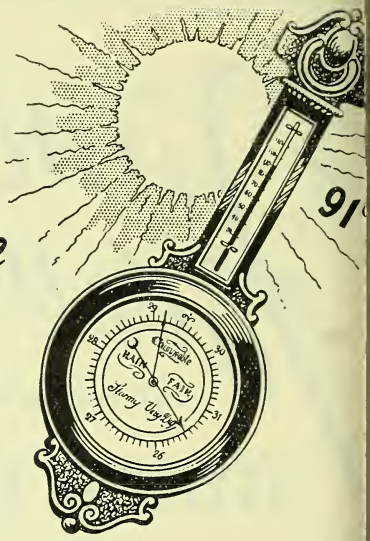

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For the treatment of summer colds, you can commend Serocalcin with confidence.

Three tablets taken three times daily in the e stages of a cold generally clear up an attack wi a few days.

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A.5. Thames Valley. Very old-established ness doing very good-class trade. Net profi ceeds £1,300. No living accommodation able. Purchase price £4,550.

A.6. London, N.W. (Retirement). Family dispensing business with freehold property. over for last financial year, £6,350. accommodation available. In present hand over 25 years. Price of business, £4,250, in ing heavy stock and valuable fixtures; pro (upon which a substantial mortgage coul doubt be arranged), £3,500-£4,000.

A.7. Willesden Green (near). Attractive macy occupying main road position. Av turnover approaches £7,000 per ann. scope. Total price approx. £4,000, incl stock and fixtures estimated at over £1,90

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Applications are invited for the post of CHIEF PHARMACIST (male or female) from persons whose names are on the Statutory Register of Pharmacists maintained in accordance with the Pharmacy Acts.

Salary commences at £520 per annum, rising by 5 annual increments of £20 to £620 per annum, in accordance with J.N.C. scales. The post is superannuable and subject to medical examination.

Applications, giving full details of qualifications, age and experience and names and addresses of two referees to be forwarded to the undersigned.

R. W. McVITY,
Secretary.

Astley Road,
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BROMPTON HOSPITAL, S.W.3

Applications are invited for the post of Assistant Pharmacist. Salary in accordance with the recommendations of Joint Negotiating Committee.

Applications, stating age and previous experience, and accompanied by copies of three recent testimonials, should be made immediately to the undersigned.

F. G. ROUVRAY.
House Governor.

BURTON-ON-TRENT HOSPITA MANAGEMENT COMMITTEE

Applications are invited for the po Pharmacist at St. Matthew's Hospital, wood, near Lichfield, Staffs. Salary i cordance with J.N.C. Scale on grade a ing to experience.

Applications with copies of testimoni soon as possible to:

J. E. SMI
Secretary to the Management Committee
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Applications are invited from qualified macists for the post of Senior Assistant macist at:—

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Applications, giving full details of qualifications and experience, together the names of two referees, to the Secr Enfield Group Hospital Management Co tee, Chase Farm Hospital, Enfield, M sex, not later than August 18, 1949.

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yal Devon and Exeter Hospital, Exeter, re an ASSISTANT PHARMACIST or female). Salary according to J.N.C. pital Staffs) Scale — £370 to £450 per m. Hospital experience preferred, but essential. The post is subject to the nal Health (Superannuation) Regula- Applications, with full particulars and s of two testimonials, to the Senior inistrative Officer.

DARTFORD HOSPITAL MANAGEMENT COMMITTEE

Applications are invited from REGISTERED PHARMACISTS for the following appointments :—

ASSISTANT PHARMACIST at the Southern Hospital. Salary £370-£450 a year. Accommodation can be provided for a male or female officer.

ASSISTANT PHARMACIST at the West Hill Hospital. Salary £370-£450 a year. Accommodation can be provided for a female officer. J.N.C. conditions of service.

Applications, with full particulars and the names of two persons to whom reference may be made, should be sent to the Secretary, Dartford Hospital Management Committee, Room No. 59, The Bow Arrow Hospital, Dartford, Kent.

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DISPENSER (locum tenens), male or female, wanted immediately. Salary 7 guineas per week. Apply, stating full particulars of experience to Medical Superintendent, Hill End Hospital & Clinic, St. Albans, Herts.

By permission of the Ministry of Labour and National Service under the Control of Engagements Order.

KNOWLE HOSPITAL MANAGEMENT COMMITTEE

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Salary will be within the range of £270 to £350, according to experience and qualifications.

Applicants must hold the Certificate of the Society of Apothecaries of London.

The appointment is subject to the provisions of the National Health Service (Superannuation) Regulations, 1947.

Applications, stating age and particulars of experience and qualifications, together with copies of two recent testimonials, should be addressed to the Secretary, Knowle Hospital, Fareham, Hants.

NORTH MANCHESTER HOSPITAL MANAGEMENT COMMITTEE

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SENIOR ASSISTANT PHARMACIST required. Salary in accordance with J.N.C. scales.

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WEST HAM GROUP No. 9

STRATFORD, LONDON, E.15.

Applications are invited for the post of SENIOR ASSISTANT PHARMACIST for duties at Queen Mary's and Plaistow Hospitals. Salary in accordance with J.N.C. (Hospital Staffs) Scale, viz., £415, rising to £490 per annum by annual increments of £15. The post is subject to the provisions of the National Health Service (Superannuation) Regulations, 1947.

Applications are invited for the post of ASSISTANT PHARMACIST. Commencing salary depending on experience and in accordance with the J.N.C. (Hospital Staffs) Scale. Previous hospital experience not essential. Hours, 9 a.m. to 5 p.m. Saturday, 9 a.m. to 1 p.m. No Sunday or late duties.

Applications, giving full details of age, qualifications and experience, together with copies of references, in respect of these two vacancies, should be addressed to the Chief Pharmacist, to be forwarded not later than August 3, 1949.

HOSPITALS FOR DISEASES OF CHEST

The London Chest Hospital invites appli for the post of SENIOR ASSISTANT MACIST with charge of the Sterilising I ment. J.N.C. salary scale with the ra £415-£490. Applications, with copies o monials, to be sent to the Secretary, I Chest Hospital, Victoria Park, E.2.

NATIONAL HEALTH SERVICE ACT

SHREWSBURY GROUP 15 HOSP MANAGEMENT COMMITTEE

TWO ASSISTANT PHARMACISTS a quired for duties in the area of Shre Group 15 Hospital Management Comm Salary in accordance with the Joint Ne ing Council Scale.

Applications, stating age, qualifications dates), nationality, with copies of recent monials, should be sent to the undersi

J. P. MALLET
Sec

Royal Salop Infirmary,
Shrewsbury.
26/7/49.

SUNDERLAND EDUCATION COM

THE TECHNICAL COLLEGE

Principal: D. A. Wrangham, M.Sc., Sen.W D.I.C., M.I.Mech.E.,

APPLICATIONS are invited for the fol posts in the Pharmacy Department:—

1. Lecturer in Pharmaceutics and subs subjects. Previous teaching experience able Salary according to Burnham Sca Lecturers. Advancement to Senior Ass ship possible for person with qualification ability to pursue pharmaceutical research
2. Demonstrator in Pharmaceutical su Salary £300 per annum. Opportuniti advanced study or research.

Preference will be given to candidates hold the B.Pharm. degree. Further culars and Forms of Application may b tained from the Registrar, The Technical lege, Sunderland, Co. Durham.

Applications should reach the under within fourteen days of the appearance o advertisement.

Canvassing will be a disqualification.

W. THOMPSON,
Director of Educ

Education Offices,
15 John St.,
Sunderland, Co. Durham.

WEST HAM GROUP HOSPITA MANAGEMENT COMMITTEE

FOREST GATE HOSPITAL, LONDON,

Applications are invited for the appoint of ASSISTANT PHARMACIST at Forest Hospital, London, E.7. Whole-time; hou duty, 39 per week; no Sunday duty. Sala accordance with J.N.C. (Hospital St viz., £370, rising by four annual incre of £15, and one of £20, to a maximu £450 per annum. Experience will be into account in determining the comme salary within the authorised scale. N qualified pharmacists considered. Ho accommodation cannot be provided.

Applications, stating age, qualifications, perience, and names of two referees, sh be sent to the Medical Superintendent, F Gate Hospital, London, E.7.

EFFIELD NO. 2 HOSPITAL
ANAGEMENT COMMITTEE
NTRAL PHARMACEUTICAL DEPARTMENT
OINTMENT OF DISPENSING ASSISTANT
tions are invited from suitably quali-
ons for the position of Dispensing
Salary within scale according to
e—£270 to £320. The National
Service Superannuation Regulations

tions, stating age and experience and
ied by the names and addresses of
ons to whom reference may be made
e forwarded forthwith to the Secre-
effield No. 2 Hospital Management
e, Middlewood Hospital, Sheffield, 6.
R. BRADLEY,
Secretary.
1949.

OSPITALS FOR DISEASES OF THE CHEST
LONDON CHEST HOSPITAL, VICTORIA PARK, E.2.
PHARMACIST IN CHARGE re-
om Monday, 29th August, to Satur-
tember 10, inclusive. There is one
Salary £10 10s. per week, with
d tea. Apply with full particulars to
tary.

T HAM GROUP HOSPITAL
ANAGEMENT COMMITTEE
ST GATE HOSPITAL, LONDON, E.7.
ESIDENT LOCUM ASSISTANT
ACIST required immediately by
ate Hospital for an indefinite period.
duty, 9 a.m. to 5 p.m. Half day
from 1 p.m. No Sunday duty. Salary
11 11s. per week, according to ex-

tions, stating age, qualifications, ex-
and names of two referees, should
o the Medical Superintendent, Forest
pital, London, E.7.

OSPITAL FOR SICK CHILDREN, ORMOND STREET, LONDON, W.C.1.
ASSISTANT PHARMACIST
tions are invited for this position.
370 to £450 on J.N.C. Scale, accord-
xperience. Apply, with details of age
rience, to A. Rae, Chief Pharmacist.

EST LONDON HOSPITAL, MMERSMITH ROAD, W.6.
tions are invited for the appointment
ant Pharmacist (male). Salary in
e with the J.N.C. Scale. Applica-
th usual particulars to the Chief
st.

EST LONDON HOSPITAL HAMMERSMITH, W.6
ASSISTANT with Apothecaries Cer-
n dispensing. (Hospital experience
) Salary in accordance with J.N.C.
Apply with usual particulars to the
armacist.

Vacancies advertised are restricted to persons or employments excepted from the provisions of the Control of Engagement Order, 1947.

SITUATIONS OPEN

36 words 8/6 (minimum) then 3d. per word. Box 2/-

RETAIL (HOME)

A COMFORTABLE SITUATION is offered to a qualified lady or elderly gentleman (single), S.E. London suburb. Pleasant living accommodation above pharmacy available if required. Liberal percentage of N.H.S. dispensing fees. Any reasonable salary asked for will be given. Apply Box 6/548.

BOOTS THE CHEMISTS have vacancies in a number of districts for qualified assistants, male and female. Salary (male) Central London £10 5s. to £11 5s. Metropolitan District £9 17s. 6d. to £10 17s. 6d. Provinces £9 10s. to £10 10s. (Female Central London £9 15s. to £10 15s. Metropolitan District £9 7s. 6d. to £10 7s. 6d. Provinces £9 to £10, according to age. Engagements are on a permanent basis with good prospects and eligibility for pension, life assurance, etc. There are also a number of vacancies for unqualified assistants with sound pharmaceutical experience. Good remuneration with a view to permanency. Pension scheme, etc. Applications should be made to Retail Staff Department, Station St., Nottingham, stating age, experience, and district preferred.

CHANNEL ISLANDS. Pharmacist (single preferred) as manager for Guernsey. Light, congenial post. No N.H.S. Interviews London or Southampton. Full particulars to Box 6/518.

CHEMIST or Chemist-Optician required. Male or female. Flat available. State wages required. Superannuation scheme. Applications to Hinchliffe Mill Ind. Co-op. Society, Ltd., 57-59 Huddersfield Rd., Holmfirth.

CHOICE OF SUITABLE accommodation, if required, on appointment. Qualified persons, male and female, are required to manage attractive pharmacies in south-east and south-west districts of London. Positions are available offering salary from £550 to £650 per annum, plus generous commission. Engagements are permanent and progressive and include entry into superannuation scheme. Apply, giving full particulars to the Staff Manager, Royal Arsenal Co-operative Chemists, Ltd., 113 Powis St., Woolwich, S.E.18.

EXCELLENT OPPORTUNITY for young qualified optician on C.P.C. list to take control of substantial practice. Premises about to be vacated after 21 years' lease; Birmingham-Wolverhampton area. Box A/9.

HEPPELLS require qualified manager for West-End pharmacy. Permanent position allowing full scope and initiative. Good salary and commissions. Pension scheme available. Please apply, Superintendent Chemist, Heppells (1932), Ltd., 70 Vauxhall Bridge Rd., London, S.W.1.

LONDON, E.2. Superintendent pharmacist required. Commencing salary £14 per week, plus bonus. Every assistance and consideration given. Elderly man might suit. Write or call, L. & M. Langer, Ltd., 321 Bethnal Green Rd., London, E.2. Bishopsgate 4979.

MANAGERESS OR MANAGER required for small drug store. Good-class trade, Ilford district. Would consider assistant wishing to improve position. 'Phone Ilf. 1756 or write Box 6/528.

Situations Open—Continued

PHARMACIST MANAGER of branch required. Three assistants kept. House available. Apply with full particulars including salary desired and previous experience to:—The Secretary & General Manager, Morley Industrial Co-operative Society, Ltd., Albion St., Morley, Leeds.

NEWCASTLE-UPON-TYNE Co-operative Society, Ltd., require pharmacist (male or female) as relief manager (with status of branch manager). Excellent experience for young pharmacist. Permanent position. Superannuation scheme. Applications, stating full particulars of experience, age, salary required, to Superintendent Chemist, Newcastle Co-operative Society, Ltd., 117 Newgate St., Newcastle-on-Tyne, 1.

PHILADELPHUS JEYES & CO., LTD. require an assistant manager for their main retail pharmacy. Excellent position with superannuation scheme. No accommodation. Full particulars in first letter to P. Jeyes & Co., Ltd., The Drapery, Northampton.

PHOTOGRAPHIC ASSISTANT. Young man required to train as photographic assistant. Chemist training would be an advantage but not essential. Please write giving full particulars and salary required. Good prospects. Wallace Heaton, Ltd., 127 New Bond St., W.1.

QUALIFIED ASSISTANT required for central pharmacy. Superannuation. 44-hour week. Applications, stating age and experience, to Oldham Co-operative Chemists, Ltd., King St., Oldham.

QUALIFIED ASSISTANT, counter and dispensing. Middle-class. Permanency. Interview if possible. Unfurnished house. Particulars to Chas. J. Taylor & Son, 292 Cheriton Rd., Folkestone.

QUALIFIED MANAGER required for branch pharmacy. Salary, £10 per week, and commission on National Health dispensing (minimum £1). Superannuation scheme. Apply, stating age and experience, to Kidderminster Co-operative Chemists, Ltd., Worcester St., Kidderminster.

UNQUALIFIED ASSISTANT required for West End. Permanent position. Good wages and commission, also superannuation scheme. Apply, Superintendent Chemist, Heppells (1932), Ltd., 70 Vauxhall Bridge Rd., S.W.1.

UNQUALIFIED ASSISTANT, experienced, required immediately (male or female) for dispensary. High-class pharmacy. Good salary. Permanency. Chave & Jackson, Ltd., Hereford.

WANTED. Qualified first assistant under 35, with view to early management. Excellent opportunity for young pharmacist to get good experience in photographic and surgical fitting. Salary to commence, £10 a week. Richmond, Surrey, area. Would wait for suitable man. Apply Box 6/555.

LOCUMS WANTED

LOCUM wanted for whole or part-time for the period August 15 to September 15. (Unqualified would suit except for August 28 to September 10.) No Sunday or half-day duty. Three other assistants. J. R. Bentley, 85 Kirkgate, Leeds, 2.

RETAIL (OVERSEAS)

SOUTHERN RHODESIA. Required for high-class pharmacy. Qualified or unqualified man for counter, window-dressing, display. Single preferred. Reply, giving details of experience, to Box 6/533.

QUALIFIED MANAGERS required by English of wholesale and retail chemists for branch British West African colonies. The position permanent with progressive salary and ge contributory pension scheme, retiring age 55 Tours are of twenty months with four m leave in United Kingdom on full pay. Lo come tax. Free furnished living accommo and medical attention is provided, also firs sea passages and outfit allowance. Apply, particulars of age, qualifications and exper also state whether married or single, to 6/561.

WHOLESALE

AGENTS REQUIRED . . .
IN ALL TERRITORIES TO HANDLE WELL-KNOWN TOILET ROLL MANUFACTURERS' PRODUCTS
SALARY AND COMMISSION
Box A/271

ALLEN & HANBURYS, LTD., require the se of a pharmacist, male or female, in their We laboratory. Canteen facilities. Apply, Ma Allen & Hanburys, Ltd., 7 Vere St., W.1.

APPLICATIONS are invited for the post of manager for London firm of pharmaceutical facturers. Owing to wide range of articles h previous experience with a firm carrying general wholesale and manufacturing business be desirable. Might appeal to young man p ing ambition and drive at present working as ant and seeing little immediate prospect of motion. Ph.C. is the minimum qualificatio emphasis will be placed on intrinsic ability than possession of overlapping academic qu tions. Present staff are aware of this adv ment. Box A/313.

APPLICATIONS are invited for the post of sentative for well-known company mar nationally advertised products. The appoin is permanent and progressive for a man w successful record of selling to chemists i Midlands. A resident of Birmingham and driver preferred. Salary and expenses only. A/309.

APPLICATIONS invited from person, ma female, to take charge of a medical mailin partment in a firm situated in Hertfordshire near London. Pharmaceutical qualificatio essential but applicant must be able to suitable propaganda leaflets, letters, etc., advise on layout. Apply, with particulars o experience and salary required to Box 6/5

ASSISTANT to commercial manager for old lished manufacturing and wholesale ch North of England. Applicant must be a qu chemist and druggist with wholesale hous perience in correspondence, costing and or tion. Opportunity and permanency offer suitable applicant not over 40 years of age. sion scheme. State experience, salary sug and copy refs. to Box 6/522.

ASSISTANT to works manager required by known firm of proprietary manufacturing ch Applicants should have had experience of control, transport, export and home forwa and general works management, but not nece of chemical industry. Apply, giving full part of experience, age, present employment, in fidence, and salary expected. Box A/298.

Situations Open—Continued

EARCH PHARMACIST, preferably also g chemical qualifications, is required as sistant chemist by a well-known company North-west. Commencing salary will be on £600-£700 according to experience. eply in confidence to Chief Chemist, Box

PRODUCTS, LTD., require clerk in pro- planning department. Previous experience lesale or manufacturing firm preferred. ts should give fullest details in writing, es required, to Production Director, Bayer , Ltd., Africa House, London, W.C.2.

JGHS WELLCOME & CO., have two vacan- young, enthusiastic pharmacists, as assist- keting executives. The work is mainly d with distribution matters but does pro- insight into production and certain aspects rch. Applications, which will be treated lence, should give fullest details of educa- l previous experience and be addressed to nager, Publicity Division, Burroughs Well- Co., 183-193 Euston Rd., London, N.W.1.

JGHS WELLCOME & CO. have a vacancy narmacist in their development laboratories ford. Applicants must be experienced in nulation of pharmaceutical preparations and development of manufacturing methods. according to qualifications and experience. ions to be addressed to the Production , The Wellcome Foundation, Ltd., 183 Rd., N.W.1.

TIC YOUNG MAN required to take charge uction in small chemical works, London knowledge of wax chemistry an advantage. 65.

L CHEMICAL INDUSTRIES, LTD., have a for a pharmacist for an administrative in package research. The work involves ion of data for maintaining and improving eutical packages for an expanding range ucts. Previous experience in this work ad- us but not essential. Applicants should een the ages of 25-30. Applications, with ticulars, should be addressed to Imperial l (Pharmaceuticals), Ltd., Office Service nent, Fulshaw Hall, Wilmslow, Manchester. st is excepted from the provisions of the of Engagement Order, 1947.

Y BUNNY PRODUCTS have vacancy, young tatives: (1) Birmingham; (2) S. Wales, (3) Newcastle; (4) Scotland; (5) London rea. Write fullest particulars, Box 6/553.

OR GENTLEMAN representatives/agents re- or (1) London; (2) Provinces; to introduce perfumes to leading retailers on commis- sis. The London area offers scope with s of an executive position as the company . Box 6/564.

N AND HOME COUNTIES. Applications ited from enthusiastic, experienced and c representatives, car owners desirable, pre- having connections with wholesale chemists, e and ironmongery distributors. Perman- ogressive position. Demonstrated ability alify for early promotion, with substantial ation. Compensation by salary. Reply full details to the Sales Manager, William n & Co., Ltd., Subaseal Works, Peel St., , Yorks.

MALE OR FEMALE qualified analytical chemist required for soft drinks factory in the south of England. It is preferable that applicants should have had experience in the industry. Reply in confidence stating age, experience, and salary required. Box 6/554.

MANUFACTURERS of established toilet line and other products require representative for Manchester and district. Well-established connection with retail chemists and allied trades absolutely essential. Must possess own car. Send details in confidence to Box A/285.

MEDICAL REPRESENTATIVES required for Midland and North of England areas by reputable London firm of manufacturing chemists (commercial experience an advantage). Applicants, who must reside in the respective teritories, should state experience, salary required, etc., to Box 704, Smiths', 100 Fleet Street, E.C.4.

MEDICAL REPRESENTATION. Pharmaceutical house requires an experienced medical representative to contact doctors and hospitals in the London area. Salary and expenses. Apply in confidence, giving full particulars of experience, salary required, etc., to Box A/293.

MEDICAL WRITER. The British Drug Houses, Ltd., have a vacancy for a copywriter to assist in the preparation of brochures and Press advertisements. Previous experience an advantage, but not essential if applicant can show evidence of literary ability and has some knowledge of medical representative work. Applications, with fullest details of experience, should be addressed to the Personnel Manager, Re RMA/WKW, The British Drug Houses, Ltd., Graham St., London, N.1.

MEDICAL REPRESENTATIVE for propaganda and sales to doctors, retail/manufacturing chemists, hospitals, required by manufacturers of ethical products for Derby, Nottingham, Leicester, Stafford and Shropshire. Car an advantage, must reside in territory. Full particulars of age, experience, salary required to Box A/279.

OLD-ESTABLISHED proprietary toilet and soap house requires experienced representatives with a connection with chemist, drug stores, Co-operative Societies and wholesalers in the following areas:—(1) Glasgow, Lanarkshire and S.W. Scotland; (2) Edinburgh, Stirling, Fife and S.E. Scotland. Apply, giving full details of experience and age, to Box A/300.

OLD-ESTABLISHED manufacturing chemists require representative in South London area, preferably with car. Salary, commission and expenses. Please state age and experience and enclose copies of references. Box 6/540.

PHARMACIST with analytical experience required by a London house to take charge of analytical laboratory. Write, stating age, experience and salary required. Box A/278.

POISON ROOM SUPERINTENDENT required by manufacturing chemists in London. Applicant selected will be responsible for supervising the work of the department and maintaining Dangerous drug records. Five-day week. Previous wholesale experience not essential so long as accuracy and attention to detail are primary qualifications. Reply to Box A/299.

REPRESENTATIVE wanted to sell packed medicines, disinfectants, etc., in the Home and Eastern Counties. Must have own car. Old-established house with existing connection. Expenses paid. Write, stating salary and commission required, also full particulars of experience to Box A/308.

Situations Open—Continued

REPRESENTATIVE required for Northamptonshire, Huntingdonshire, Bedfordshire, Oxfordshire, Berkshire, Buckinghamshire and Hertfordshire by well-known manufacturers of proprietary toilet articles. Must have live connection with wholesale and retail chemists, co-ops, stores and hairdressers. Remuneration on substantial commission basis. Apply, giving age and experience to Box 6/538.

REPRESENTATIVE required calling on doctors and chemists in Essex and Sussex and doctors, hospitals and veterinary surgeons in North and North West London, Middlesex, Hertfordshire, Buckingham**shire and Essex, for wholesale manufacturing house. Reply giving full details, experience, etc., to Box A/7.**

REPRESENTATIVE (expenses and commission basis) required by manufacturers of nationally advertised cosmetics to call on chemists, stores, hairdressers, Co-ops., etc. in Yorks, Lancs, and other Northern Counties; also Scotland. Good connection and car essential. Write, giving full particulars, age, experience, etc., and state area covered or desired. Box A/311.

REPRESENTATIVES required (car owners preferred) by manufacturing chemists for 1, Yorkshire; 2, Wales. Personal connection desirable with retail chemists and hospitals, and some drug experience an advantage. The position is progressive and remunerative. Salary, commission, car allowance and expenses. Box 6/520.

REPRESENTATIVES REQUIRED by pharmaceutical house of high repute to detail medical and dental professions for Eastern Scottish territory; also London, Surrey, Devon and Cornwall (applicant for London, Surrey, etc., must reside in Surrey). Applicants must have had similar experience. Write, giving age, details of experience and salary required, to Box A/302.

REPRESENTATIVE REQUIRED by well-known manufacturing chemists to sell nationally advertised toilet and medicinal lines to chemist, Co-operative Societies and stores in Somerset, Devon and Cornwall. Applicants should reside on the territory. Superannuation scheme in operation. Car provided. Details of experience, age and salary required to Box A/301.

SUPERVISOR REQUIRED for manufacturing department by reputable pharmaceutical house. Apply, giving age, details of experience and salary required, to Box A/303.

SALES DIRECTOR

required by old-established manufacturers of nationally advertised cosmetics.
The position, which carries first class remuneration, with prospects of a directorship, offers an exceptional opportunity to an ambitious man with drive, enthusiasm and integrity, backed by a record of successful personal selling in this specialised field, who is able to take complete control of sales, including the planning and execution of sales promotion schemes and the training and direction of representatives.
Applications, which will be treated in strict confidence, should be addressed to:
THE MANAGING DIRECTOR, Box A/305

SALES AGENTS and representatives with live nections with chemists, drapers, druggists, s co-operatives, etc., required by manufacture surgical dressings (S.T's) and baby goods, shire, Wales, Midlands. Only live men proved ability need apply, giving full partic Box A/296.

SHARP & DOHME, LTD., announce that the ganisation of sales territories has created a ber of vacancies on their medical represent staff. Applications are invited from men havi good pharmaceutical or medical background fo following areas: (1) Lancashire (East); (2) shire (South); (3) Derbys and Staffs; (4) N ants, Beds, Oxford, Bucks and Berks; (5) Glo ters, Wilts and Hants; (6) Cambs, Norfolk Suffolk. This work is interesting and remune and applicants should be resident on the de territory. Brief personal particulars, together availability for interview should be sent to Sales Manager, Sharp & Dohme, Ltd., Hodde Herts.

SALES MANAGER. Applications are invited fo post of sales manager with a well-known com of fine chemical manufacturers. Applicants s have experience (preferably in a managerial city) of home and export sales organisation pharmaceutical qualification is desirable but essential. A knowledge of foreign languages be advantageous since the post will involve tensive travel overseas. The appointment i important one carrying a substantial salary good prospects for still further advancement. Box A/304.

SENIOR MEDICAL/TRADE representative for don to act also in general supervisory cap Must have considerable experience with et and established connection. Remuneration b rangement. Also fully experienced medical/ representatives required for (1) Yorks area (2) Lancs area. Salary, expenses and overall mission. Write full details to Allied Laborat 140 Park Lane, W.1.

SMALL FIRM of wholesale and manufact chemists will shortly have a vacancy for a r sentative to take over and expand an establ connection among chemists in Manchester district. Applicants must have a good know of drugs, galenicals and patents, possess sales ship, initiative and energy. Excellent prospect one capable of making friends readily. Sa commission and expenses. Box 6/530.

TECHNICAL MANAGER for well-known Sco manufacturing chemists. Must be experience modern methods of quality control and resea Good chemical qualifications essential. Pharma tical background and/or knowledge of ch therapy an advantage. Salary not less than £1 Apply Box 6/552.

THE CROOKES LABORATORIES require a sui qualified man to take control of medical de ment. Experience in the compilation of me literature and advertisements is essential and position would also control clinical and pha cological trials of new products. The appoint is permanent, superannuated and progressive. details of past experience, age, etc., should be plied in initial application addressed to the Ge Manager, The Crookes Laboratories, Ltd., C Road, Park Royal, N.W.10.

VACANCY EXISTS for tablet maker with experi of rotary machines and sugar coating. Five week. Applications, with particulars of experie etc., to "Personnel", Gale, Baiss & Co., I Ilderton Rd., S.E.15.

Situations Open—Continued

; **PHARMACIST,** preferably man, required ›ouling department of well-known London cturing chemists. Wholesale/manufacturing ıce useful but not essential. Starting salary ıe but good prospects for adaptable and c person. Write fullest details to Box A/2960.

; **REPRESENTATIVE** wanted by small whole-emists' sundriesmen (Est. 30 years) for the ›ndon and Essex area. Salary, commission, s basis. Many accounts handed over. Apply ., 196 Whittington Rd., Wood Green, N.21.

; **WORKS CHEMIST** (qualified) required by ›wn manufacturing chemists in N.W. Lon-oducing dental, medicinal and toilet pre-ıs. Five-day week. Manufacturing experi-eferred but not essential. Good opportunity ıtious worker. Write, stating experience, equired, etc. Box A/312.

WHOLESALE (OVERSEAS)

CHEMIST REQUIRED FOR NAIROBI
ist required for old-established and pro-ve pharmacy in Nairobi, Kenya Colony. : man preferred. Good salary and com-›n offered. Director is at present in nd and interviews can be arranged at notice. Please reply giving age and full s of previous experience to Frank Ross ›. (London), Ltd., 4 Lloyd's Avenue, ›n, E.C.3.

4 of international repute marketing pro- products have a vacancy for a technical manager. Must have B.Pharm. or degree in ry, plus three years' experience of manu-g pharmaceuticals. Immediate vacancy in initially for three years, to be reviewed at of that period with view to extension or ive employment in United Kingdom or re. Full details as regards this post, salary, etc., will be made available at interview. giving fullest details of age, qualifications, ıce, and salary required, to Box A/291.

1 WEST AFRICA. Qualified chemist and (English certificate only) required; age 5; commencing salary £700 per annum ıg to age and experience. Good prospects. allowance for married man with children. f 21 months with leave on full pay. Free , furnished quarters, medical attention in and membership of pension fund. Apply ng, giving full particulars to United Africa d., Coast Staff Dept. (Chemist), Unilever Blackfriars, London, E.C.4.

SITUATIONS WANTED

's 3/- (minimum) then 1d. per word. Box 1/-

RETAIL (HOME)

ASSISTANT, Hall, with fifteen years' dispen-perience, desires post in S.E. London or ent. Box 6/566.

FIED DISPENSER requires position London Met., Bakerloo, and Central, convenient. ırs retail. Not registered pharmacist. . 16 Norfolk Sq., London, W.2.

ALIFIED assistant seeks situation in high-armacy dispensing and counter, London or Box 6/558.

UNQUALIFIED, married (41), with 25 years' retail and wholesale experience, desires position offering good prospects. Accommodation essential. Box 6/549.

WHOLESALE

PHARMACIST, University graduate with good experience in ethical sales and administration, desires appointment with reputable London firm. Excellent organising ability and good personality. Directorship with capital investment considered.

Box No. 127 CHARLES SELL
5/6 Red Lion Square, W.C.1

ADVERTISER having first-class experience purchasing and departmental management manufacturing chemists requires charge. Excellent references. Please write Box 6/470.

ESTABLISHED REPRESENTATIVE calling on leading chemists, stores and hairdressers in Yorks and Lancs requires additional quality line, not cosmetics. Box 6/550.

GENTLEMAN (39). First-class references, wishes to represent established house. Pharmaceutical preparations preferred. 5 years chemists and doctors. North of the Thames. 15 years retail. Salary, commission and expenses. Box 6/556.

KENT, Surrey, Sussex, Hants, experienced representative offers excellent connection wholesale and retail chemists, departmental stores. Salary, commission, expenses. Box 6/484.

AGENCIES

36 words 17/6 (minimum) then 4d. per word. Box 2/-

AGENTS with first-class connections with chemists, required to handle a popular six and eight exposure roll film. Attractive discounts and commission. The Panda Film Co. (Wholesale), Ltd., 12 Laings Corner, Mitcham, Surrey.

AGENTS with established connections required to carry two popular nationally distributed products upon 20% commission basis. Commission on repeat orders being 10%. Will consider sole agencies. Box 6/545.

MANUFACTURERS INTERESTED in exporting pharmaceuticals, drugs, proprietary medicines, hospital supplies and surgical instruments, send lists to buying agency in U.K. All overseas markets catered for. Catalogues and enquiries to Monomark BCM/KEMAG, London, W.1.

New Edition of **TEXTBOOK OF PHARMACOGNOSY** by T. C. DENSTON, B.Pharm., Ph.C. F.R.I.C., now available. This textbook provides a complete course in Pharmacognosy for the C. & D. qualifying examination, covering every aspect of the syllabus. An invaluable book for every student. 27/6 postage 9d. from The CHEMIST & DRUGGIST, 28 Essex Street, London, W.C.2

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- **Business Transfers, without publicity, our speciality**
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- **All Valuations and Stocktakings, carried out under personal supervision of principals**

Established 1870 **Phone: TERminus 3574**

AGENCIES WANTED

36 words 8/6 (minimum) then 3d. per word. Box 2/-

ADDITIONAL LINES REQUIRED on sole agency by experienced man calling on retail chemists, Hampshire, Sussex, Surrey. Box 6/544.

BUSINESS OPPORTUNITIES

36 words 17/6 (minimum) then 4d. per word. Box 2/-

CAPACITY available for the manufacture and/or packing of pharmaceutical or toilet products for home or export market by manufacturing chemists with modern equipment. All enquiries treated in strict confidence. J. J. & J. Jenkins & Associates, Ltd., 78 Bollo Bridge Road, London, W.3. (Acorn 4386).

ENQUIRIES INVITED for tablet packing in cellophane wrapping. Special quotations for contract work. Box A/306.

MANUFACTURING CHEMISTS have facilities and plant available for the manufacture and/or packing of domestic, industrial or toilet products. Bottle, powder and tube filling. Frank Macowal, Ltd., 30 Loughborough St., S.E.11. Reliance 3435.

PACKAGE DESIGN. Consult Roy Courtice, N.R.D., L.S.I.A. about your new package design. Successful specialist for 12 years. Studios at 51 Foxgrove Rd., Beckenham, Kent. Bec. 5602.

SOUTH AFRICAN FACTORY manufacturing household chemicals are interested in producing similar goods under British licence. Write Box 6/551.

WANTED

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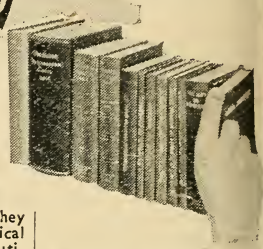

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